

#### Director

Rector Vice Rector IV Telkom University

#### **Editorial Board**

Palti Marulitua Sitorus Eka Widhi Yunarso J. Catur Prasetiawan Ridwan Sukma Al Busyaeri

#### **Editorial Chief**

Palti Marulitua Sitorus

#### **Editor Manager**

Eka Widhi Yunarso

#### Editor Secretary

J. Catur Prasetiawan

#### Reportage

Lia Yulianti

Rurik Machfiroh Tika Rahmawati

#### Graphic Design/ Layout Geraldi Gunawan

Circulation and Ad

#### **Editorial address**

Bangkit Building 2nd Floor Telkom University Bandung Technoplex Email :ppm@telkomuniversity.ac.id Web : ppm.telkomuniversity.ac.id Mobile : 082219364346 Telp : 022 - 7564500

Konsultan Media
Dinamika Komunika
www.dinamikakomunika.com

### CONTENTS



THE CHALLENGE of TEL-U in "Utama" Cluster



**CONTROL SYSTEM to Ease Human Business** 

The Era of Social Network Analysis (SNA) for Business Area

12

Moral Messages from Traditional Games 18

8 INSPIRATION
Functioning Overseas for the
National Development



Ithenticate Reminder of Plagiarism for Researcher

36

#### LABORATORY

Manufacturing Process Lab Learning CNC Optimization to Get Certification

#### **ACTUAL**

Increasing Contribution towards the Research for Commercialization 40

#### **RESEARCH GROUP**

Expertise Group of Accounting Information Systems Creating an Aplication towards Cashless Society

46



Conference Must Make a Contribution

60

INTELLECTUAL PROPERTY Knowing Patents

**PROLOG** 

f we talk about higher education, it cannot be separated from Three Pillars of National Higher Education (Tri Darma), namely learning, research, and community service. It is because the demand in higher education is quite different from that in other levels of education which only demand teaching-learning activity. Busi-

# Telkom University **MUST DO RESEARCH**

ness process in higher education institution is aimed not only to educate students, but also to have a real contribution to community and nation. This is the reason why higher education is now under the Ministry of Research, Technology and Higher Education (Kemristek), not to the Ministry of Education.

A large number of higher education institutions in Indonesia already exist, starting from the big ones, to the small ones. All of these higher education institutions are obliged to contribute to develop knowledge; it also applies for Telkom University (Tel-U). Administratively, this university is considered new, however, it has so many experiences in education world for more than 20 years.

One of its ways to contribute to community is by finding something new. How to find it? By conducting researches. Besides that, research can be a reference for teaching-learning activity. For that reason, research

activity is very important for the development of science, improvement of teaching process, and any recent case in many fields applied in community.

As one part of higher education world. Tel-U is not free from research obligation. In fact, there are a huge number of funds allocated for research activity, especially for lecturers' researches. Various kinds of grants for research from Directorate General of Higher Education (Dirjen Dikti) are constantly available. All of them are aimed to improve the quality and quantity of lecturers' researches due to the demand of research that should be conducted by all higher education institutions.

As motivation, Directorate General of Higher Education has categorized higher education institutions into four cluster; they are: Mandiri, Utama, Madya, and Binaan. These four categories are strongly related to research grants that will be awarded to each higher education institution. The position of

Tel-U nowadays is as a Utama Cluster that will receive around 60 % RIP-based research grant. and 40% research multi-year. This campus is also allowed to review the researches that will be granted by the Directorate General of Higher Education. Still. Tel-U cannot be satisfied only with this position. The urge to self-improve and develop the quality and quantity of researches are always there. Lecturers who have not done any research should be supported to start one. Research schemes in this university should be improved to give bigger chance for the lecturers to do research.

The aim is to become a research-based university (Research University), along with the main aim in fulfilling the Three Pillars. When it is running, the contribution of Tel-U to the society can be improved by the implementation of the research findings. ❖

**PROJECTION** 



# THE CHALLENGE OF TEL-UIN "UTAMA" CLUSTER

Similar to other higher education institutions, Telkom University (Tel-U) also needs to stand out among other universities, especially, in the area of research. Although it has become a university for only three years, for research matter, this campus has reached a variety of achievements. In the last two consecutive years, this campus has been placed in the "UTAMA" Cluster by the Directorate General of Higher Education, in terms of the research performance. Of course, it is a pride for Tel-U since Tel-U has proven to defeat other campuses that were established earlier than Tel-U. Yet, the achievement still needs to be improved.

he categorization or the clusterization of higher education institutions depends on the research performance, determined by the Directorate of Research and Community Service (DRPM) of Kemristek Dikti to improve the quality and quantity of research in universities. According to the Director General of Kemristek Dikti, Djoko Susanto, in an assessment report of university research performance in 2010 - 2012 periods, there are four clusters of university determined by their performances, i.e. Mandiri, Utama, Madya, and Binaan. There are several factors that become the basics of assessment towards the universities to determine these groups, such as research resources, research management. research outcomes and revenue that are acquired as the followups of the research results.

Grouping the educational institutions was done as a real form of decentralization of activities of Tri Dharma. According to the evaluation results, Tel-U occupies the primary cluster since it achieved high

rates in the components of research management (Manajemen Penelitian) and research resources (Sumber Daya). While the components of Research Outcomes (Luaran Penelitian) and Revenue Generating (RG) are slightly higher than the national average. In the group, major strengths of this university are the MP and SD components.

"The objective (of this grouping) is related to Tel-U external funds granted by DRPM. Being in the Utama Cluster, Tel-II can decide which lecturers' researches that will be financed by DRPM. In fact, if the rank climbes up to Independent, Tel-II is free to determine the researches and funding provided by DRPM. But, if its rank goes down to the Madva or Binaan Cluster, the reviewers for lecturers' researches that will be financed by DRPM are determined by DRPM" said Vice-Rector IV for Tel-U Student Affairs and Research, Dr. M. Yahya Arwiyah, SH, M.H.

The research funding granted by Dikti for the universities is based on the clusters. For "

The objective (of this grouping) is related to Tel-U external funds granted by DRPM. Being in the Utama Cluster, Tel-U can decide which lecturers' researches that will be financed by DRPM."

Mandiri Cluster, the 100% fund is allocated for RIP-based researches. Then, Utama Cluster will receive 60% for RIP-based researches and 40% for multiyear researches. Then, Madya Cluster will receive 35% for RIP-based researches and 65% for multi-year researches. Lastly, Binaan Cluster will receive 25% for RIP-based researches and 75% for multi-year researches.

According to Yahya, at least

this achievement must be maintained because it can stimulate the lecturers to create high-quality researches, in addition to increase the quantity. The higher the rank of group or cluster of university, the greater the funds disbursed by DRPM for research activities.

In 2015, Tel-U has five internal research schemes; they are: Internal Fund Research, Partnership, International Grants, Leading Universities, and Independent Grants. As for external researches, Dikti only provides two schemes; they are: the National Competitive and Decentralization.

Research decentralization is essentially a delegation of tasks and authority on higher education in the management of research in order to create qualified, programmed and continuous academic climate. There are seven research schemes offered for decentralization of Higher Education in 2015. Namely, Leading Researches for Universities (PUTP), Competitive Research Grant, Fundamental Research, Graduate Studies, University

#### **PROJECTION**

Cooperation Research (Pekerti), Doctoral Dissertation Research, and Young Lecturers Research.

In addition to that, the National Competitive Research is divided into six schemes. *First*, the National Strategic Research (Pusnas). *Second*,

University & Industry Leading Research (RAPID). *Third*, International Cooperation Research & International Publication (KLN). *Fourth*, Competition Research (HIKOM). Fifth, the National Strategic Research (Stranas). Lastly, Research of Master Plan for the Acceleration and Expansion of Indo-

nesia's Economic Development (MP3EI). In 2015, Tel-U has produced 180 internal researches and 33 external researches.

Yahya said that the development of research at Tel-U constantly shows some improvement from year to year. "If

Dr. M. Yahya Arwiyah, S.H., M.H

I am asked about re-

search, it's been quite encouraging. Now there are 893 lecturers involved in one or several studies that have been running since Tel-U was established on August 14, 2013. As for research papers that have been accepted in international journals in 2015, there are already 118 papers. So, its development has been quite significant, "said Vice Rector IV of Tel-U.

Currently, the Utama Cluster has already been achieved by Tel-U, but the research challenges for Tel-U are still great. According to Yahya's opinion, it is not easy to encourage lecturers to do research, although they are the part of the Tri Dharma. "There are lecturers who have not conducted research. but we always give them motivation. The causes vary, some of them said that they have not yet tried, are doubt, and fear of rejection, and some are indeed hiding and does not want to do research. This is not right and in time, punishment will be given to them based on the prevailing system in the university. For example, lecturers who refuse

to do research will be given penalties that affect their earnings, as one measure of lecturer performance is doing research, or he will be questioned for his responsibility towards Tri Dharma. So, inevitably everyone who is a lecturer must do research. Lecturers may prefer one aspect of Tri Dharma, but still other aspects must be implemented too, "he explained.

Moreover, Tel-U already has started to direct its researches to be oriented on the finished products. Although it is difficult, but the stages to go towards that direction has been done, which cooperate with Bandung Techno Park (BTP), the one of affiliated units of Telkom Foundation (YPT) to downstream a number of studies that can be commercialized. Moreover, Tel-II has accommodated lecturers' researches that have a sense of "newness" by registering them as Intellectual Property / Kekayaan Intelectual (KI). The aim is to preserve the work of Tel-U civitas academica's researches. So, it will not vanish into thin air, or be admitted by other par-



ties, or further, it could be created into the products of technology, art or management.

#### Conference as Publication Improvement Solution

Not only encouraging the lecturers to improve the quality and quantity of the research, Tel-U also provides a facility for the lecturers to publish it. One of the activities is by conducting a conference. It was not easy at the beginning because to manage a conference that is recognized by international journal management, a conference should be attended by many participants.

Yahya emphasizes, the enactment of international conference for each faculty at Tel-U gives a significant influence for many things, both internal and external recognition.

"So, the challenge is truly hard. When people attend a seminar or conference, the first thing that comes to their mind is what they will get and whether the articles will be published in Scopus or Thomson-indexed Journal or not. The point is,

every participant want to get a benefit when he/she attends a seminar or conference. So, how can a conference held by Tel-U can be indexed by international journal management if the Tel-U itself is not very famous? That is why we make cooperation with journal organizer management or we try to sell Tel-U conferences so hard to get many participants," said this ex-inhouse lawyer of PT Telkom Indonesia.

When holding a conference, a higher education institution will not be directly recognized by journal organizer management, except, it has already established a cooperation previously. Tel-U itself has conducted an international conference in collaboration with a journal organizer management. One of them is Global Illuminator: it is an institution that already has international network to improve research, learning, knowledge sharing, innovation, and capacity building.

This network unites academician coming from multiple

sciences to create academic superiority, innovation, human development, and research competent for the whole world. The purpose is to make sure that the materials presented in the conference can be published in Scopus, or Tomson-indexed journal. However, there are also independent conferences held by Tel-U, such as, International Conference on Information and Communication Technology (ICoICT). This is the conference held by School of Computing of Tel-U that has already been Scopus-indexed since two years ago.

"So, the conference held is not directly indexed, except, we already have networking with journal organizer management. That is why we work together with journal organizer management to verify papers that are submitted to the conference. In our opinion, it is quite challenging, but it is worth trying. Since everything in this world is considered hard at the beginning. But there are many proofs that lecturers who are accustomed

to Scopus, international conference, etc. are people who love to try. There will be no masterpiece, without a small work," said Yahya, philosophically.

For that reason, Yahya wished that research at Tel-U can be an actual product that can be commercialized, "Researchers get satisfaction, the result can be applied for community need, and nation can enjoy the freshness that is created in technology, science, and art. I wish that this kind of activity will support lecturers' component and encourage students to do research. There are many researches that are submitted in international championships. Now, it is time for us to produce research results to be massive products, so it can be mutualism symbiosis. These are also the things that push us to enhance the collaboration with many universities inside and outside Indonesia, and others. We also establish some collaboration with practitioner as a business doer," Yahya said, concluding the conversation. ❖



# CONTROL SYSTEM to Ease Human Business

The facilitation for human activity is getting more and more real. Along with technology improvement, things that are typically done manually now can be preceded automatically. It is because human creates automatic and control system. The ability to design and create this automatic and control system is needed to make everything under control and guaranteed. In the end, the efficiency and effectiveness rate in a process of something can be achieved.



#### EXTERNAL FUND RESEARCH 2015

# SCHOOL OF ELECTRICAL ENGINEERING

Major

**Bachelor of Electrical Engineering** 

Title

Guaranteed Cost Model AT Uncertain Neutral Systems Article Search Google Delay Time That Changed Against Time: System Control And Filtering (Filtering)

Researcher Team

Dr. Erwin Susanto, S.T., M.T. Junartho Halomoan, S.T., M.T.

Fund

IDR 61,500,000

Scheme

**Fundamental** 

■ Major

**Bachelor of Physics Engineering** 

Title

Design Reactor Producing Hydrogen and Methane From Organic Waste As Energy Future

Researcher Team

Mukhammad Ramdlan Kirom, S.Si, M.Si.

Achmad Qurthobi, S.T., M.T. Salafudin, S.T., M.Sc. (ITENAS)

- Fund IDR 70,000,000
- Scheme

**Competitive Grant Research** 

#### **INNOVATION**

here are many researches related to control system that are conducted to achieve the stability in many uncertain systems. In this research, it specifically discusses how to design a control system of neutral system; a system with delay period, and change of delay period, so it can achieve optimum and stable condition.

Optimum can be defined that cost and time function is efficient and economical, while stable can be explained as follow: even though a system faces uncertainty that is caused by many things, such as disturbance and system physical changes, but control system that is designed can result a strong system reaction to overcome the uncertainty.

The application of this control system can be found in daily life, nowadays. Including the simple one, for example, feed water tank. If it is done manually, it is easy to fill out the tank, only by turning up the faucet, waiting for the water to fulfill the tank, and turning it down after the tank is full. However, this method is considered ineffective, inefficient, and not optimum, since human

should continually monitor the tank, whether it is already full or not.

For that reason, control system appears to optimize and ease human job. So, people make a control system for the feed water tank using some instruments that can replace the eye and hand of human; for example by using censor, automatic switch (electronic, mechanic, and hydraulic instruments), and the result is changed to energy that moves motor to turn on and off the faucet. So there is automatic works performed by instrument using simple algorithm that replace human brain.

So, water feed using this automatic system can work alone, without human supervision. For example, when water already reaches given minimum limit, faucet will turn on and when water already reaches maximum limit, this faucet will also turn off, automatically.

# Initiated from Steam Machine by James Watt

Control system is a set of equipments to control, to order and to arrange a state of system.

# Researcher Chairman Profile

**ERWIN** Susanto, S.T., M.T., Ph.D active as a lecturer of Signals and Systems and Control Engineering in Electrical Engineering Department Telkom University (Tel-U) since 2007. Lecturers were initially pursue the field of Electricity is starting to focus on control systems in line with the development trend of weak current electro technology.

Graduated Bachelor of Electrical Engineering in ITS 1998, Erwin took Master on Mechanical Settings to research topics Predictive Control in ITS and graduated in 2006. In 2009, taking Post Graduate at Kumamoto University to research topics Optimal Control and Robust Control in Intelligent Control Laboratory until 2012.

In 2007 and 2009 he get a research grant funds Internal and Young Lecturer Higher Education. Year 2014 - 2015 conducted research with the Fundamental Research Grant scheme. In 2015, Erwin being a member of the National Excellence research with nano-satellite development topics.

This study was published in Indonesia and Japan, among others in ICIC Express Letters (icicel.org) and IMA Journal Mathematic Control & Information and Telkomnika June 2015 edition. ❖

Erwin Susanto, S.T., M.T., Ph.D.

There are many methods and algorithm of control system that are applied, starting from simple system such as automatic feed water tank, to a very complicated system with huge scale, such as aerospace control system.

Control system itself started from the invention of steam machine by James Watt. The first work that is very important in control system was centrifugal governor to control the speed of this steam machine made in 18th century.

Another important work in the development of control theory was made by Minorsky, Hazen, Nyquist, et al. In 1922, Minorsky made an automatic controller to drive a ship and he showed how to determine the stability from differential equation that pictured physical system.

In 1943, Hazen introduced ReleServomekanis term that responded to changing input. During 1940s decade, frequency method enables the engineer to design linear feedback control that fulfils working requirements. The frequency response method enabled engineers to design linear control system with feedback that fulfilled working requirements. By the end of 1940, until the beginning of 1950, the method of position of root in control design greatly developed and it has been used until now.

Control system actually can be found not only in electronics engineering but also in mechanics area, process chemistry or other areas of knowledge. It is true that control system is dominated by electronics engineering area, considering the easiness of the conversion, storage and process of electrical signal.

The character of this research is fundamental and it is focused on math modelling, and continued by strong control design (robust) for system with uncertainty character. Later on, the outcome of this research is expected to be implemented, for example, in control sys-

tem of rotation and electrical motor and others.

For that reason, as the continuity of control system research, a research is being conducted in which the outcome is the implementation of control design on reaction wheel that is applied in Nano satellite. Besides that, this research also found important outcomes for teaching activity, i.e. enriching teaching materials of control system, so it will improve lecturers' and students' knowledge in control design. •

Cited from a research:
"Model Guaranteed Cost Pada
System Netral Tak Pasti dengan
Waktu Tunda yang Berubah
Terhadap Waktu: Sistem
Kendali dan Penyaringan
(Filtering)"

by Erwin Susanto, S.T., M.T., Ph.D and Junartho Halomoan, S.T., M.T.

#### EXTERNAL FUND RESEARCH 2015

# SCHOOL OF ELECTRICAL ENGINEERING

- MajorBachelor of Computer System
- Title

Prototyping Hardware and Software Keylogger For Security Penetration Testing Computer Systems and the National Intelligence Purposes

- Researcher Team
  Yudha Purwanto, S.T., M.T.
  Surya Michrandi Nasution, S.T., M.T.
  Ir. Agus Virgono, M.T.
- Fund IDR 50,000,000
- Scheme
  Competitive Grant Research
- Major
   Bachelor of Telecomunication
   Engineering
- Engineering
   Title
  Design and Implementation of
  - Design and Implementation of Remote Sensing Systems to Achieve Independence Nanosatelit Payload Satellite College
- Researcher Team
  Dr. Heroe Wijanto, MT.
  Dr. Erwin Susanto, S.T., M.T.
  Budi Prasetya, S.T., M.T.
  Budi Syihabuddin, S.T., M.T.
  TPM Bandung Techno Park (BTP):
  Inung Wijayanto, S.T., M.T.
- Fund IDR 700,000,000
- Scheme
   National Strategic Excellent

INNOVATION

# The Era of Social Network Analysis (SNA) for Business Area

According to Dr. Tronick, human has a nature to make a relationship with others since they were born. We know it as social relationship. A number of toddlers who meet somewhere will somehow end up in conversation and play together even though there are no instructions from the adults. Adults who have the same hobby or interest will gather in a community.

# KONINGS BERGA KONINGS BERGA A STATE OF THE STATE OF T



The seven bridges of Königsberg then (common.wikimedia.org) and now (screen capture from Apple Map). From the seven bridges in Euler era, two were destroyed because of world war two.

n Bandung City, we can find a wide range of communities for almost every hobby. For example, in Jalan Taman Sari, we can find the secretariat of Yamaha NMax scooter owner community. In Jalan Purnawarman, we can find

a place where people who love and learn French culture gather together.

In Pasteur, especially in a mall, we can see people play or have a regular competition held by the community of Tamiya car fans. Of course, there are many other similar locations in Bandung.

Does a community make it compulsory to provide a physical location as a place to gather? It is apparently not.

By the end of 20th century, Indonesian students who were studying abroad formed an online community, namely KasKus (now it is famous for its trading activity). In the beginning of 2000s, the owner of Apple made a community in the form of mailing-list appleid. There are also photography fans that established a photographer community dot net.

A community, especially online community, almost barely recognizes organizational structure. Although a community has one or more people who role as pioneers, but, during the activity, it is the contributions from the members that make the community alive.

If there is no formal regulation in a community, can we measure the performance of the community? How? This is where we are introduced to graph theory.

Before that, let us go to Königsberg City (It is now

## EXTERNAL FUND RESEARCH 2015

# SCHOOL OF ELECTRICAL ENGINEERING

- Major
   Bachelor of Telecomunication
   Engineering
- Title

  Design and Prototyping of National

  Health Center of Geographic

  Information Systems ( Sigapnas )

  To Improve Public Health Services
  Indonesia
- Researcher Team
  Istikmal, S.T., M.T.
  Tody Arifianto Wibowo S.T., M.T.
  Leanna Vidya Yovita S.T., M.T.
- Fund IDR 60,000,000
- Scheme
  Competititve Grant Research
- MajorBachelor of Physics Engineering
- Title

  Abnormalities Disease Detection

  System Implementation Based

  Voice Band Mobile Computing
- Researcher Team
  Suwandi M.Si
  Hertiana Bethaningtyas Dyah K.,
  S.T., M.T.
- Fund IDR 50,000,000
- Scheme
  Competitive Grant Research

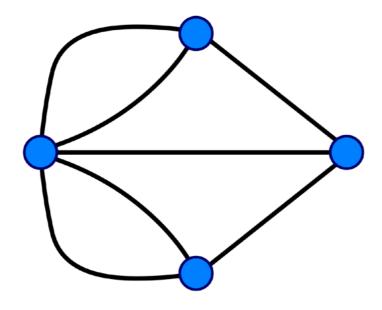
#### INNOVATION

called Kaliningrad). In the 18th century, there was a challenge to cross 7 bridges of Königsberg. Not only to cross it, but also to finish the challenge, someone must pass the bridges once.

Being curious with the solution, a mathematician, Leonard Euler showed the blueprint of bridges into a graph. Through this visualization, Euler showed that the challenge was impossible to resolve.

Euler tried to represent the bridges and lands connected by nodes (dots) and edges (lines). Land was symbolized by node, and bridge was symbolized by edge. So, if a land was connected to another land by a bridge, there would be a node and another node that was connected with a line (see figure 2). The solution that was invented in 1936 is believed to be the basic of graph theory, one of the branches of math.

Now, how can we use the graph theory in a community? We can use the same analogy as one used by Euler. If Euler



Representation of 7 Bridges of Königsberg in the form of nodes and edges (common. wikimedia.org)

used a node and an edge to symbolize a land and a bridge, we can use a node and an edge to symbolize people (or internet users), and identify the correlation that might happen.

In social life, this graph theory becomes the basic of a method namely Social Network Analysis (SNA). Is it a breakthrough in social media era? The answer is yes and no.

No, because the use of SNA was already applied by Jacob Moreno (a psychiatrist) in 1930s, to analyze the correlation of friendship in an elementary school. It utilized

a very simple way; it observed the activity of students in that elementary school during break time, and Moreno noted the activity of the students in that elementary school.

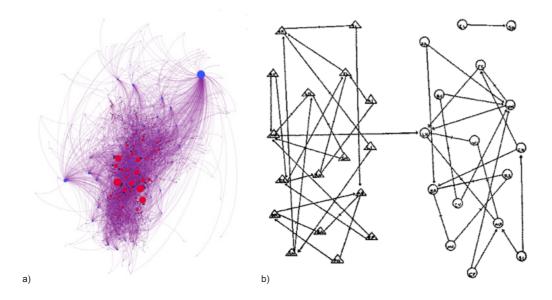
Every student was symbolized by a node. If a student played or talked to other students, Moreno drawed a line (an edge) from a node that represented that student to another node that represented his friend. After he drawed it into a graph, Moreno could see the most popular student. For example, by counting who had the most edges in the graph.

(see figure 3b). it is a simple Method, isn't it?

The other answer is: Yes, since digital record from every activity in social media simplify the task of the researcher to collect relational data of internet users. Social media becomes one of the dominant factors to make SNA method repeat its popularity.

The activity in social media can be interpreted in a graph by, for example, symbolizing the user as a node, and an edge to connect that user with his uploaded messages or with other users who are actually his friends in that social media.

For example, figure 3 shows the representation of a graph from social interaction that was taken from Telkom University facebook page. Here, the nodes represent facebook users that participated in that page, and also messages contained in that page. While the edges represent the relationship between facebook users and messages. For example, if a user writes a message in Telkom University



a) Representation of correlation graph among users at Telkom University facebook page (Peranginangin, Y., Alamsyah, A., 2015) b) Representation of correlation graph among students in a school (Newman, M. E. J., 2010)

facebook page, there will be a line (an edge) between two nodes that represent the user and the message that he wrote. Also, when someone does "like" or "share" a message.

The problem is when a network consists of more than ten thousand nodes, and they are connected, how can we analyze them? Visually, the representation of the graph as seen in 3a might not talk much. But there is a piece of good

news

Graph theory provides a number of matrices that can be used to analyze complex networks. Some most-used matrices, such as centrality (who the central actor is, or what the most important node is in a network), modularity (how a group or community is shaped in a network), and density (how dense the relation among the nodes in a network). And there are still many other SNA matrices.

Instead of doing manual calculation, just like how it was done by Jacob Moreno, algorithm software can do the task for us. It is just because the speed of the algorithm is limited by the power of hardware (in this case, it depends on the processor power). The calculation speed is also related to network complexity that will be analyzed.

In social network, if the number of the nodes in a network increases, the com-

# EXTERNAL FUND RESEARCH 2015

# SCHOOL OF ELECTRICAL ENGINEERING

- Major
   Bachelor of Telecomunication
   Engineering
- Title

  Accompanied Learning Tool

  Development Interactive Media

  Using Adobe Flash and Powerpoint

  Program to Improve Outcomes

  Learning Algorithms And

  Programming On University Students

  Telkom Bandung
- Researcher Team
  Hurianti Vidyaningtyas, S.T., M.T.
  Leanna Vidya Yovita, S.T., M.T.
  Ratna Mayasari, S.T., M.T.
  TPM Universitas Tanjungpura:
  Dr. Drs. Bambang Hudiono M.Pd.
  Dr. Yulis Jamiah M.Pd.
- IDR 76,000,000
   Scheme
  Partnerships Research

■ Fund

- Major
   Bachelor of Telecomunication
   Engineering
- Title
  Implementation Steganography
  Text With the DCT Compressed
  and Encrypted with LZW RSA on
  Android
- Researcher Team
  Iwan Iwut Tritoasmoro, S.T., M.T.
  Gelar Budiman, S.T., M.T.
  Ledya Novamizanti, S.Si., M.T.
- Fund IDR 55,000,000
- Scheme
  Competitive Grant Research

#### INNOVATION

plexity level of the network also increases exponentially. With a huge number of nodes, say millions, it is important to have more processors to count SNA matrix faster. One of ways to fasten the counting with limited processor is by optimizing the existed algorithm.

One of ways that has been done is by doing graph compression. We merge same nodes and edges to become supernodes and superedges. The aim is to reduce graph complexity that finally fastens the calculation process.

The result shows that the network data that is saved (for some cases) can be reduced up to 40%, and the calculation process of SNA matrix is faster up to 50%. Every effort in simplifying the graph will surely lead to the decrease of the accuracy of the calculation result, and this is a work that is included in the agenda of our next research.

Efficient algorithm, in the end, will make analysis process cheaper. The availability of abundant and real-time

social media data opens opportunity for stakeholders to make a more agile organization.

Imagine if we can monitor the responses from a community of our marketing program in real-time. Or, we can predict staff's performance in an organization without doing time-consuming survey. Organization policy can be more effective, and organization can have backup resources that can be allocated for more im-

portant aspects.

The key is how an organization adopts this technology fast, and makes it a competitive advantage.

Cited from a research:

"Penyederhanaan Kompleksitas Meterik Centrality dalam Large Scale Social Network di Bidang Ilmu Manajemen"

by Yahya Peranginangin, S.T., MBA and Andry Alamsyah, S.T., MBA.

# The Profile of the Head of Research Team



YAHYA Peranginangin, S.T., MBA graduated from Mechanical Engineering (Aeronoutics), Bandung Institute of Technology (ITB) for his undergraduate program in 1998. After accomplishing his master degree in Business in 2004, Yahya started to work as a Tel-U lecturer (fka Telkom Institute of Management – IM Telkom) in 2011.

Previously, Yahya had worked in a security company based in Australia for Indonesia branch. In this company, Yahya developed visual technology intelligent to change manual security system (done by human) into technology.

Besides that, Yahya had worked in a developer house to develop some systems. His interest in Tel-U (fka IM Telkom) was because of his focus that lied on technology (Telecommunication and Informatics) even though his educational background was management. It was in line with his profession that mostly involved in IT Business. ❖

#### EXTERNAL FUND RESEARCH 2015

# SCHOOL OF ELECTRICAL ENGINEERING

- Major
   Bachelor of Electrical Engineering
- Title
   Implementation Purnarupa
   Adaptive Modulation And Coding and Adaptive Resource Block on Broadband Wireless Technology
- Researcher Team
   Dr. Ir. Rina Pudji Astuti, M.T.
   Dr. Arfianto Fahmi, S.T., M.T.
   Linda Meylani, S.T., M.T.
- Fund IDR 59,500,000
- Scheme Fundamental

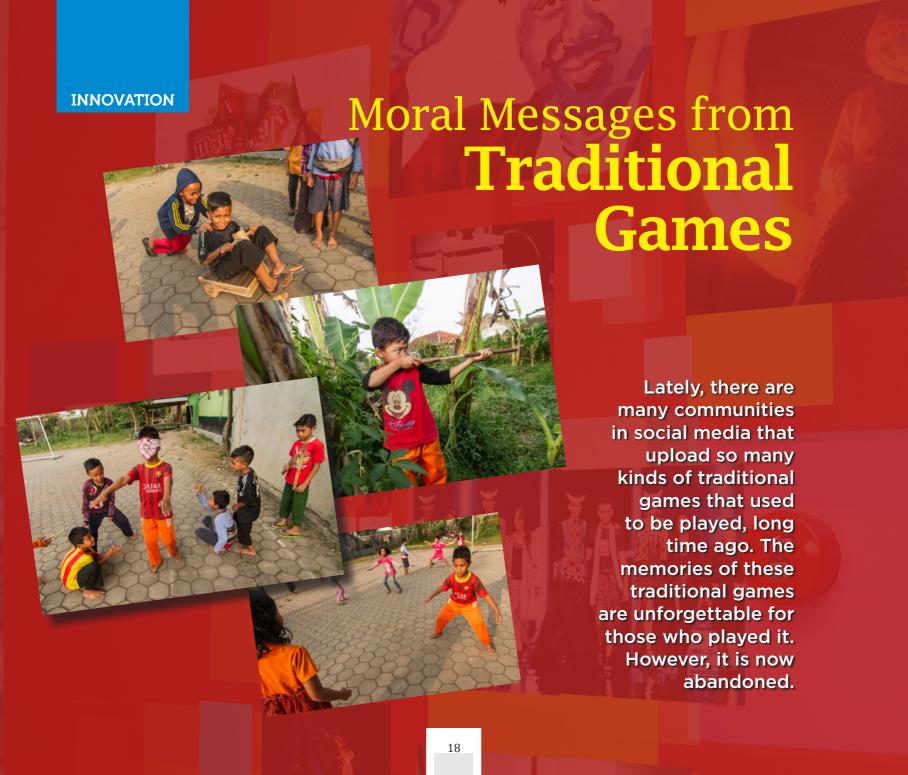
Major

- Bachelor of Electrical Engineering
   Title
- IPTV Network -Based Broadband Network Homeplug AV PLC
- Researcher Team
  Dr. Ir. Basuki Rahmat, M.T.
  Muhammad Iqbal, S.T., M.T.
  Ratna Mayasari,, S.T., M.T.
- Fund IDR 56,000,000
- Scheme
  Competitive Grant Research

 Publication in an international seminar "The 1st ISCLO" entitled: "Effective Knowledge Management using Big Data and Social Network Analysis".

- Publication in an international seminar "The 2nd ICOICT" entitled: "Social Network Modelling Approach for Brand Awareness".
- Publication in an international seminar "The 2nd ISCLO" entitled: "Learning Organization using Conversational Social Network for Social Customer Relationship Management Effort".
- 4. Publication in an international seminar "The 3rd International Conference on Computation for Science and Technology" entitled: "Reducing Computational Complexity of Network Analysis using Graph Compression Method for Brand Awareness Effort".
- Publication in an international seminar "The 3rd ICOICT" (2015) entitled: "Social Engagement Analysis in Online Conversation of Indonesia Higher Education".
- Publication in an international seminar "The 3rd ICOICT" (2015) entitled: "Network Market Analysis using Large Scale Social Network Conversations of Indonesia's Fast Food Industry".
- Publication in an international seminar "The 3rd ICOICT" (2015) entitled: "Indonesian Music Fans Group Identification using Social Network Analysis in Kaskus Forum".
- Publication in "Graph Sampling Approach for Reducing Computational Complexity of Large Scale Social Network".
- Publication draft for an international journal "Journal of Physics" entitled: "Multiple Regression to Analyse Brand Awareness in Social Graph".





es, a number of traditional games are substituted by modern games that mostly utilize the technology of gadget. But actually, traditional games are easier, cheaper and have more moral values.

Luckily, there are many societies that are still concerned about traditional games. One of them is Zaini Alif through Hong Community that relentlessly invites children to play traditional games. He has also conducted many researches to collect a number of traditional games to preserve it from extinction. Furthermore, Zaini Alif focuses himself in a research about traditional games and he made a community that is concerned about traditional games.

Even so, there are still many people who are less concerned about the conservation of traditional games as part of culture. Therefore, the researches about traditional games were re-conducted to market, remind, and reconstruct this idea, especially to kids.

According to Zaini Alif, Indonesia has more than 800 kinds of traditional games. This record was gained after a field study and observations were conducted. This number may have increased, since there are many traditional games that have not been listed in the database.

Specifically in West Java, there are around 250 kinds of traditional games that have been listed since 2003–2011. However, from this number, there are only some that are still remembered and played by children. Even for today, especially in rural areas, such as Bandung and its surrounding, there are many children who do not know about the forms of traditional games from West Java.

For that reason. 2 lecturers from Visual Communication Design (DKV) program, School of Creative Industry, Sonson Nurusholih and Gandara Permana assisted by Affan Miraza (a student of DKV program), conducted a research by documenting some traditional games from West Iava that still exist. This research strives to visualize some kinds of traditional games in the form of documentary photos. The aim is to change the paradigm; traditional games considered oldfashioned and not fun must be changed to be something fun and playable. The community also exists as part of Indonesian traditional culture, not only as an ornamental accessory, but also as a value that clings to the society itself.

In this research, researchers selected 20 kinds of traditional games that would be played and they would be the research objects. These twenty games were: Bebeletokan, Bedil Jepret, Boyboyan, Cingciripit, Congklak, Dam-daman, Engrang, Engrang Batok, Galah Asin, Galah Bandung, Hompimpah, Kokoleceran, Kukudaan, Paciwit-ciwit Lutung, Rorodaan, Sondah, Suten Suit, Tetemute. Ucing Peungpeun, and Ucing Sumput. Although there are still many other games and traditional games tools in West Iava, these games were selected based on the investigation of playability, especially in Bandung. Until now, Zaini Alif has listed 130 games that are still played in West Java.

Gathering kinds of traditional games, especially in West Java region is not an easy thing to do because there are many games that has already disap-

#### EXTERNAL FUND RESEARCH 2015

### SCHOOL OF ELECTRICAL ENGINEERING

- Major
   Bachelor of Electrical Engineering
- Wireless Charging System for Automatic Vehicle (Automated Vehicle Guidance)
- Researcher Team
  Sigit Yuwono, Ph.D.
  Angga Rusdinar, Ph.D.
  Zulfi, S.T., M.T.
- Fund IDR 59,000,000
- SchemeCompetitive Grant Research
- MajorBachelor of Electrical Engineering
- Title
  Wireless ECG 12 Lead To Heart
  Disease Patients Distributed
  Monitoring
- Researcher Team
  Achmad Rizal, S.T., M.T.
  Sugondo H., S.T., M.T.
  Suci Aulia, S.T., M.T.
- Fund IDR 50.000.000
- SchemeCompetitive Grant Research

#### **INNOVATION**

peared, or even unrecognized by the community. There is nothing in the previous research that discussed traditional games from scientific point of view. Another problem is the lack of literature review from previous researches and references for this kind of research. For instance, the categorization of shapes, kinds, rules, how the games are played, number of players, the end of the games and other classifications have not been stipulated until now.

# The Educational Values of The Game ala Bloom

For the research that was conducted in 3 months, researcher chose Cimahi as the location of the research. The reason is because, a few years ago, there was still a place to play traditional games, in a field that was surrounded by bamboos. This research used quantitative approach by descriptive analysis method and data was obtained by field observation, deep interview and literature review.

The first thing to do was finding as much as information through literature review. Information was gathered from a book wrote by James Danandjaya about Indonesian folklore. The book states that traditional game is divided into several categories.

First, it is divided into three parts; a game that trains the sensitivity through sound, movement and development, and that prepares for their adulthood (special). Second, observation and simulation was conducted with the help of the children in Cimahi – Cimahi city. This simulation was, then documented by camera and the result was selected and analyzed.

The result of the observation shows that there are traditional games that use special tools, for example Engrang uses bamboo, Engrang Batok uses batok (hard shell of coconut), and there are also games that uses stem of banana bunch, leaves, wood, etc.

There are 20 traditional games that are modelled in the simulation based on James Danandjaya category. This is where traditional games consist of two characters; the first is games characterized as play (recreative – play, games in the form of simulation) and games characterized as games (competitive)

Another point of this traditional game simulation and documentation if it is associated with domain initiated by Benyamin Bloom or known as Bloom Taxonomy, it found the existence of education purposes, which is cognitive, affective, and psychomotor.

that is divided into three parts, they are: games of chance (take turns to win and lose), games of strategy, and games of physical skills (games that need power and agility).

The result of the documentation from simulation shows that one game could be interpreted differently because recreative and competitive game is only slightly different. For example, game of Bebeletokan is a form of game that is categorized as recreative game in the form of the tool (Bebeletokan – gun). However, in the practice, this game is considered as competitive game when children agree to develop a game to contest the group by playing battle. So, based on the research conducted by Zaini Alif, previously, to decide the group of recreative or competitive can be taken from the dominan character of the game itself.

The other result of traditional game documentation is related to the area or domain that is stated by Benyamin Bloom or it is widely known as Bloom Taxonomy. It is found that there are activities that are aimed at educational results; those are cognitive, affective, and psychomotoric process.

It is proven from simulation of traditional games played, for example, in Galah Asin and Galah Bandung, children are demanded to work together and find a good strategy to pass the enemy lines.

Also in other traditional games, such as Engrang, Eng-

# Researcher profile

SONSON Nursholih was born in Bandung, January 21st, 1974. After completing his undergraduate degree in Visual Communication Design (DKV)

program, STISI Bandung (now known as School of Creative Industries, Telkom University), he pursued his master degree at Institut Seni Budaya Indonesia (ISBI) Bandung.

The researcher, who loves photography, writing, and travelling, has writ-

ten some books
related to travelling and other
things linked
to Indonesian culture,
especially
traditional
games. The
researcher, now, is
a lecturer
at School

of Creative Industries, Visual Communication Design

program, Telkom University.�

Jepret (psychomotoric), Boyboyan, Cingciripit, Congklak, Dam-daman, Hompimpah, Kokoleceran, Kukudaan, Paciwit-ciwit Lutung, Rorodaan, Sondah, Suten Suit, Tetemute, Ucing Peungpeun, and Ucing

rang Batok, Bebeletokan, Bedil

were analyzed, they contain numerous educational values, both physically and spiritually.

Sumput, after the activities

From the explanation above, it can be concluded that by documenting the kinds of traditional games in West Java, it is expected that there will be appreciators who are interested in them and try to preserve them from extinction. This research can also be a reference for anyone who wants to make the same research and it is wished that there will be an improvement for further research. 🌣

#### Cited from a research:

"Upaya Pelestarian Permainan Tradisional Jawa Barat Melalui Foto Dokumenter" by Sonson Nursholih, M.Sn dan Gandara Permana, M.Sn.

Sonson Nursholih, M.S

#### EXTERNAL FUND RESEARCH 2015

# SCHOOL OF ELECTRICAL ENGINEERING

Major

Bachelor of Telecomunication Engineering

■ Title

Development of New Algorithm Variable CCH / Sch Interval Multichannel Mac (Vcimmac) Effect Against Node Mobility In the IEEE standard 1609.4 (Vanets)

Researcher TeamDr. Ir. Rendy Munadi, M.T.Doan Perdana, S.T., M.T.

■ Fund IDR 200.000.000

Scheme

Basic Research of INSINAS Ristek

2015

Major
 Bachelor of Electrical Engineering

■ Title

Multi - band Spectrum Sensing Multiple Testing Procedure Based on Cognitive Radio

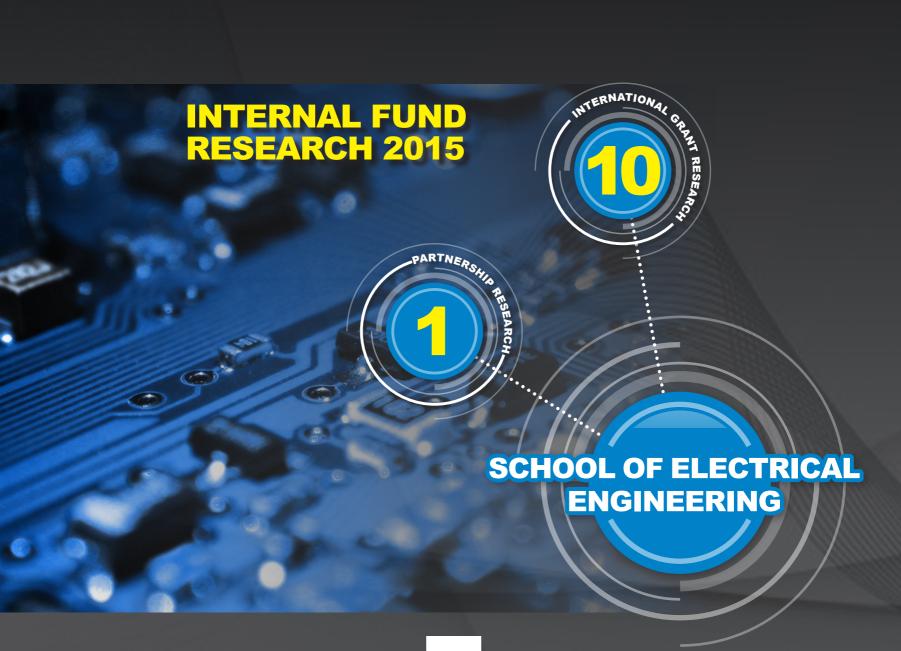
Researcher Team
Dr.Ing. Fiky Y. Suratman, S.T., M.T.
Gelar Budiman, S.T., M.T.
Iswahyudi Hidayat, S.T., M.T.

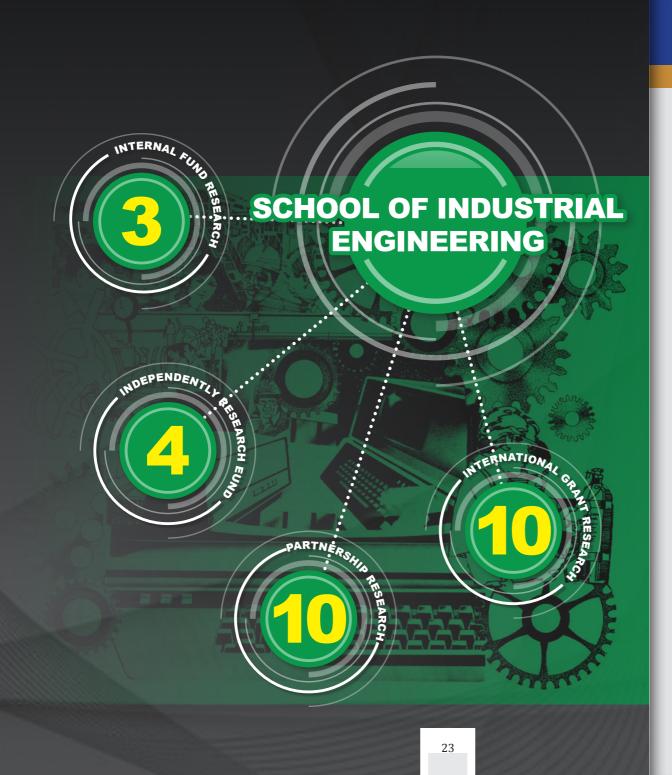
■ Fund IDR 200,000,000

Scheme

Basic Research of INSINAS Ristek

2015



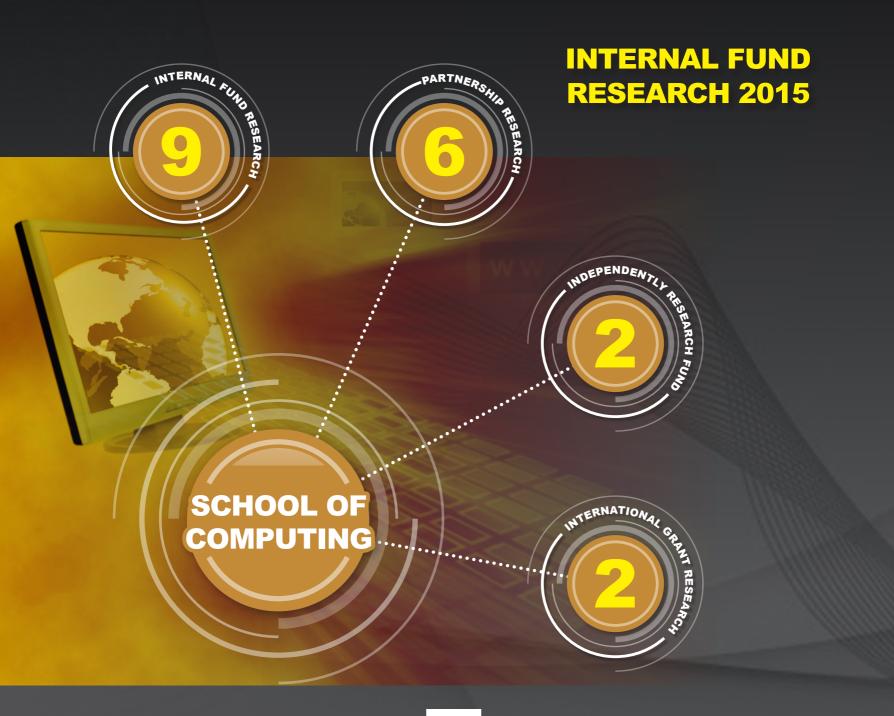


## EXTERNAL FUND RESEARCH 2015

- Major
- **Bachelor of Computational Science**
- Title
- Characterization Graf Operating Results Kromatiknya f- Based Index for Supporting Computational Time Optimization
- Researcher Team

  Dr. Adiwijaya, S.Si., M.Si.

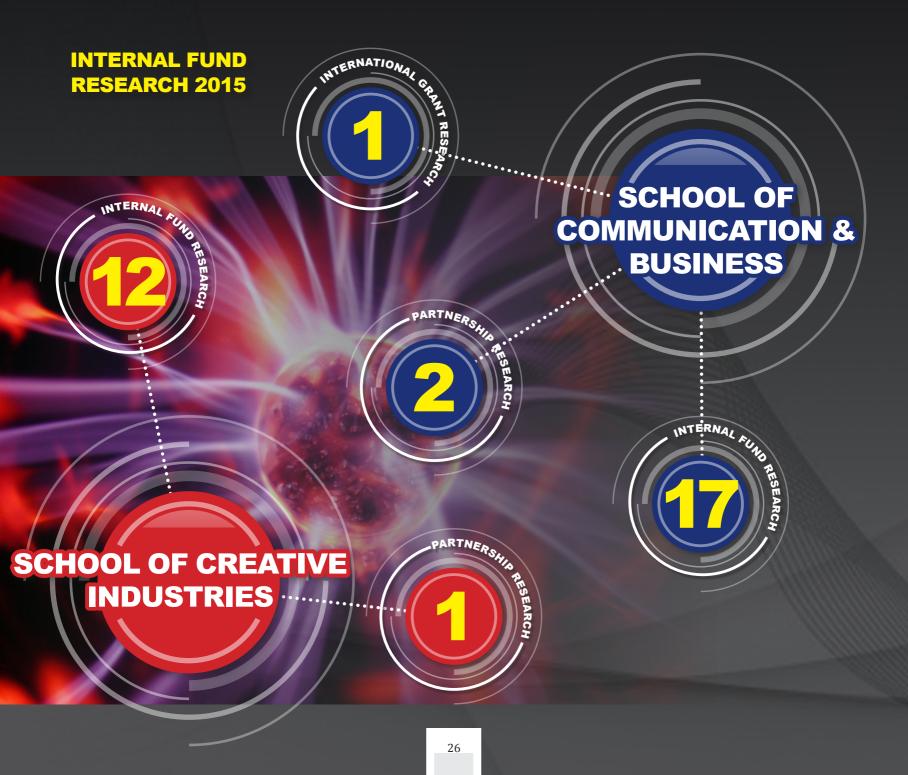
  Bayu Erfianto, S.Si., M.Sc.
- Fund IDR 66,000,000
- SchemeFundamental
- Major
  - **Bachelor of Informatics Engineering**
- Title
   Study and Application of Process
   Mining On Business Process Audit
- Researcher Team
   Angelina Prima Kurniati, S.T., M.T.
   Imelda Atastina, S.Si., M.T.
   Guntur Prabawa Kusuma, S.T., M.T.
- Fund IDR 69,500,000
- Scheme
  Competitive Grant Research



# INTERNATIONAL CAR INTERNAL FUL SCHOOL OF ECONOMICS & BUSINESS 25

#### EXTERNAL FUND RESEARCH 2015

- Major
  - **Bachelor of Informatics Engineering**
- Title
- Easy Used And Customizable General Reporting Application
- Researcher Team
  - Kusuma Ayu Laksitowening, S.T., M.T. Yanuar Firdaus Arie Wibowo, S.T., M.T.
- Fund
  - IDR 61,000,000
- Scheme
  - **Competitive Grant Research**
- Major
  - **Bachelor of Informatics Engineering**
- Title
- Palm Biometric study of Palm as a Feature Individual Identity
- Researcher Team
  - Tjokorda Agung Budi Wirayuda, S.T., M.T.
  - Bambang Pudjoatmodjo, S.Si., M.T. Febryanti Sthevanie, S.T., M.T.
- Fund
  - IDR 60,500,000
- Scheme
  - **Competitive Grant Research**
- Major
  - **Master of Informatics Engineering**
- Title
- Insertion Extraction Feature Fingerprint On QR Code
- Researcher Team
  - Ir. Ari Moesriami Barmawi, M.Sc., Ph.D. Fazmah Arif Yulianto, S.T., M.T.
- Fund
  - IDR 55,000,000
- Scheme
- **Higher Education Excellenct**



# INTERNAL FUND INDEPENDENT PARTNERSHIP SCHOOL OF APPLIED SCIENCE. 27

# **EXTERNAL FUND RESEARCH 2015**

- Major
- **Bachelor of Informatics Engineering**
- Title
- Social Network Analysis for Social Media Marketing In Title Helps SMEs (Small and Medium)
- Researcher Team
  Warih Maharani, S.T., M.T.
  Dr. Adiwijaya, S.Si., M.Si.
  Alfian Akbar Gozali, S.T.,M.T.
- Fund IDR 60,000,000
- Scheme
  Competitive Grant Research
- MajorBachelor of Computational Science
- Title
- Analysis of High Performance Computing Approach For High Complexity Computational Issues Case Study: Travelling Salesman Problem With Genetic Algorithm
- Researcher Team
  Yuliant Sibaroni, M.T.
  Fitriyani, M.T.
  Fhira Nhita, M.T.
- Fund IDR 60,000,000
- Scheme
  Competitive Grant Research

Dr. Eng. Asep Suhendi, S.Si., M.Si.

Functioning Overseas for the National Development

Functioning based on the area of expertise is one of a person's satisfactions. However, functioning in a field that is enjoyed by many people, even people coming from other countries, and admitted by people from other countries is, indeed, a big pride. It is because that person is able to introduce Indonesia's good reputation. It is too bad, because there are only few who go back to their country and share the knowledge, because many of them prefer to stay overseas. This is not what happened to a lecturer of Telkom University (Tel-U), Dr. Eng. Asep Suhendi, S.Si., M.Si.



# "

fter finishing his doctoral program and completing his research in Japan, the graduate of Hiroshima University decided to go back to Indonesia for teaching. In fact, he is already listed as a researcher with most Q1 publication.

"The term Q1 actually became popular recently in Indonesia. In other countries, it is called impact factor for science publication. There, I have a target to publish with impact factor of 3. Meanwhile, the impact factor of Q1 is 2. So, the number of papers that I have published during my Doctoral study is about 8 papers, and they are already included in Q1. After that, during my duty at Tel–U, I have already published five papers," said Asep.

The term Q1 or impact factor is the influence of one journal to other journals that is submitted or cited or referenced by other researchers and also the influence of this journal to the related science. The higher the impact factor of a journal, the bigger the contribution of the paper to science.

The researches conducted

The term Q1 actually became popular recently in Indonesia. In other countries. it is called impact factor for science publication. There. I have a target to publish with impact factor of 3. Meanwhile, the impact factor of Q1 is 2. "

by Asep during his stay in Japan were done with his advisor pofessor, and most of his researches are realted to industry. The researches conducted by Asep in Japan are divided into two parts: research during his Doctoral study on chemical engineering and research of his Post-Doctoral in magnetic material (FE16N2).

Asep was previously competent in instrument area.

"My expertise is in instrument area, and then I used it for photosynthesis material. So, I applied some methods to synthesize some materials in controllable manner. Then, I wrote some papers from those methods. The researches I made are mostly related to nano particle. I usually utilized silica mixed with polystyrene to make particles with many kinds of shape and structure, i.e. solid, hollow, or coated. The size of particle usually ranged from tens to hundreds nanometre," he said.

Meanwhile, his post-doctoral research was a Japanese project directed to an effort to energy saving. According to Asep, aside from finding renewable energy, Japan strives to save energy and one of them is by conducting a magnet material research. The use of magnet material is widely found in automotive and industrial machines. The use of a strong yet cheap magnet will result in effective and efficient machine performance. This research was conducted with the collaboration with the in-

- Major
- **Bachelor of Computational Science**
- Title
- Determination These Public Transportation Systems
- Researcher Team
   Sri Suryani Prasetiyowati, M.Si.
   Izzatul Ummah, M.T.
   Mahmud Imrona, M.T.
- Fund IDR 64,000,000
- Scheme
  Competitive Grant Research
- Major
   Bachelor of Computational Sciencei
- Title

  Godunov Method For Road Network
  with Phase Transitions
- Researcher Team
   Erwin Budi Setiawan, S.Si., M.T.
   Rian Febrian Umbara S.Si., M.Si
- Fund IDR 60,000,000
- Scheme
  Competitive Grant Research
- MajorBachelor of Informatics Engineering
- Title
   Expansion Method Perfomance
   Factor Analysis ( PFA ) To Predict
   Knowledge Group In Collaborative
   Learning
- Researcher Team
  Dade Nurjanah, S.T., M.T., Ph.D.
  Hetti Hidayati, S.Kom., M.T.
- Fund IDR 59,000,000
- Scheme
  Fundamental

#### **INSPIRATION**

dustry and it was supervised by the Ministry of Economy, Trade, and Industry of Japan.

"In this research, our lab was assigned to separate particles, since particles are usually agglomerated or attached one to another. It is because the synthesis process needed high temperature by using Bead-mill's dispersion method, which is the grinding process of particles, helped by micrometric solid ball to pound and separate the particles. These dispersed particles were easier to manage. Further, the particles were arranged in a very strong magnetic field; the magnet was given a strong adhesive to make their intensity very strong. It was possible because the size of the particle was only 60 -70 nanometre and it has a single magnet momentum, so, it could be directed in a homogeny way," explained this Physic Engineering lecturer.

His interest in the field of instrument started from his hobby in fixing his computer, both the hardware and software since he was in high school where he majored in Computer Electronics. After he graduated from Technical Vocational High School (STM) Pembangunan Bandung in 1999, Asep started to work. In 2001, he was finally accepted in Physics Engineering, Faculty of Math and Science, Bandung Institute of Technology (ITB).

This was where Asep was introduced to low current instrument measurement system, such as electric current which is under nanoampere size. In 2008. Asep graduated from his Master program of ITB and he worked for two years in an exploration company. Having had a scholarship, Asep finally continued his doctoral program in Japan until 2013. In 2014, he was accepted at Tel-U. However, he was active in this campus after he finished his research contract in Japan in 2015.

# Researcher Must be Careful in Making a Publication

Living for a long time in Sakura Country makes Asep understand the research culture there. This is what has changed Asep, from a curious boy into a meticulous and detailed person. His mindset changed after he met a very meticulous Professor. In fact, Asep was guided to be able to write well for his



research publications. According to Asep, the meticulousness and reader-oriented writing are the skeleton key for good publication.

"I started from technical vocational high school, bachelor and master degree as a curious practical person. When I started my doctoral program, I had to be able to write for publication. It was indeed hard. But in Japan, I was guided on how to express my ideas and research findings in the form of writing. No matter how good your research is, if it is not written, nobody will know about it. The most important things are meticulousness and details. Even to produce one paragraph, there will be repeated examinations and discussions to produce the best version. Secondly, when we draw, it should be reader-oriented, or it is understandable by the readers. My professor said that it should be understandable even for my wife and my kindergarten kid. It means that the pic-

#### EXTERNAL FUND RESEARCH 2015

## SCHOOL OF ECONOMICS & BUSINESS

ture should be detailed and easy to understand, so people can easily read and follow its flow," explained this man, who was born on May 6th, 1980.

According to Asep, an understandable and meticulous piece of writing will influence the reviewer examination. If reviewer finds mistakes when he is assessing it, he will perceive that the paper is not well written.

For overseas research, researcher is not allowed to have another focus when conducting a research. While in Indonesia, there are many researchers whose focus is divided between doing research and teaching, or thinking of other targets that should be accomplished.

"The experience of conducting research overseas can solve problems in writing, since in other countries, researcher has no other focus than conducting research, research and research. That is why I appreciate lecturers here who are still able to write with limited condition. In Japan, every sentence in a paper should be brief, concise, and clear. The use of this kind of sentences usually

makes a difference in Q1 and Q2. So, we should read many high-quality papers that are understandable," he further explained.

Asep described the differences of the research environment between Japan and Indonesia that influence the quality and direction of the research. The differences start from grants, cooperation, facility and research roadmap. In Japan, University researchers are only required to conduct two researches in a year even though the achievements always exceed the target.

In addition to that, researchers should not worry about funding, because it usually has been fixed from the very beginning. Aside from university funding, research grant is usually added from industrial community that usually comes to ask solution for their company's problems. Besides that, the need of facility is already solved by providing complete infrastructure. Finally, research roadmap in Japan is already formed even for the next ten years (gabare project).

"It is rather different here. Even though there is a fund-

ing system for research, but the realization is sometimes different from the initial plan. For facility, it is not complete here: there is no characterization equipment that is very important for nano research. However, we establish cooperation with other institutions that have these tools. For example, for Scanning Electron Microscope (SEM) tool, we usually go to ITB. Or. if the needed tool is not available in Indonesia. I usually contact my connection in Japan, But, it impacts to the duration of the research: the research will take longer time. For that reason, if Indonesia wants to improve its research, it is important to build cooperation with stakeholders, for example, higher education institutions, governments, and industries. For the time being, for the universities in Indonesia such as Tel-U, it is hard to start cooperation with industries, but it is not impossible for Tel-U to encourage the lecturers and students to be accepted in global community. One of the ways is by inclusion in international-scale researchs." he concluded.

Major

Bachelor of Management Business Technology and Informatics

■ Title

Simplifying Complexity Community Detection For Large Scale Social Network in the Field of Management Science

Researcher Team

Yahya Peranginangin Andry Alamsyah, S.Si.,MSc. TPM - Institut Teknologi Bandung (ITB):

- Dr. Muchtadi Intan Detiene, M.Si.
- Fund

IDR 80,000,000

Scheme

Partnerships Research

Maior

Bachelor of Management Business Technology and Informatics

■ Title

Business Process Design Supply Chain Management For Small and Medium Business Center Sablon Using Model SCOR (Supply Chain Operations Reference)

- Researcher Team
  Ir. Dodie Tricahyono, M.M., Ph.D.
  Herry Irawan
  Ratih Hendayani
- Fund IDR 55,000,000
- Scheme

**Competitive Grant Research** 



# Reminder of Plagiarism for Researcher

Plagiarism or imitation of scientific works has become the main topic for researchers and academics. Trust is at stake when a lecturer or researcher once is caught to conduct plagiarism. It is certain that the researchers would not be trusted by other parties and the owned title will possibly be revoked by the authorities. Not to mention if the parties being plagiarized could not accept, the matter of plagiarism must be sued in the realm of law. Plagiarism is considered to be the same as the theft of works. so that it could be a long and complicated affair if it is caught.

a number of strategies to avoid plagiarism toward its academic community. One of them is by preventing plagiarism through the examination of scientific works created in the internal environment of Tel-U. Before the scientific papers are published to the outside, the campus will examine a number of scientific works through Ithenticate application.

"This application is in order to support us in Tel-U, so there is a kind of internal filter to the scientific works prior to broader publishing," said the Library Manager of Tel-U, Nurul Fitria ST, MM.

Ithenticate application is appplied by Tel-U as a plagiarism filter after a number of studies. At first, the campus must choose the types of applications that can be used to filter incoming works. Instead of using ithenticate, a number of existing campuses use other applications for internal filter, for example Turn-It-In application. However, after some

# SCHOOL OF ECONOMICS & BUSINESS

Major

Bachelor of Management Business Technology and Informatics

Titl

Against Innovation Factors
Influence Gadget Adoption Among
Telkom University Lecturer

- Researcher Team Indira Rachmawati, S.T., M.S.M. Khairani R Siregar, S.Si., M.T. Farah Alfanur, S.Si., M.S.M., M.Eng.
- Fund IDR 56.000.000
- Scheme
  Competitive Grant Research
- Major

**Bachelor of Management Business Technology and Informatics** 

■ Title

Measuring Instant Messenger
Application Adoption by using
Unified Theory of Acceptance and
Use of Technology 2 (UTAUT 2)
(A Comparative Study between
Indonesia and Malaysia Customers)

- Researcher Team
   Dra. Indrawati, M.M., Ph.D.
   Dr. Maya Ariyanti, S.E., M.M.
   International partner:
   Prof. Dr. Murali Raman (Multimedia University Malaysia)
- Fund IDR 155,000,000
- Scheme
   Kerjasama Luar Negeri
   dan Publikasi Internasional

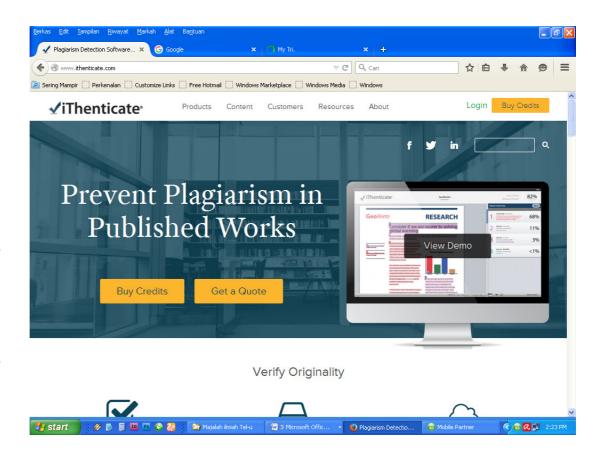
#### **REFERENCE**

consideration, finally Tel-U chose Ithenticate.

"From our point of view, Ithenticate features are more powerful and more focused on research. While Turn-It-In more towards case studies for high schools, "he continued.

Ithenticate had some packages offered to college in its use with different prices. Tel-U itself tries to use the package with a subscription fee of \$ 13,500 per year, with a given quota for only to 200 users. This application came into its use in 2014 at Tel-U. Although it is considered to be quite expensive, this application is very supportive of Three Pillars of National Higher Education (Tri Dharma Perguruan Tinggi) and maintains the credibility of the academic community.

According to Nurul Fitria-Wuwul --her nickname, from the quota of 200 users, Ithenticate can be used to upload 10,000 documents for all kinds of scientific works with a number of provisions per document, both of megabytes size and number of pages per document. Admittedly, the use of Ithenti-



cate is not optimal, because it is still newly applied.

"We started using the application at the end of 2014. For 2015, only around 140-150 documents from 10,000 documents provided were uploaded. From the number of 200 users.

we grant access to each unit requiring, among others are to PPM unit as super admins, as related to research. Then, one access to each study program and to each of the total 30 expertise groups, and to the organizers of the journals at Tel-U,

and the rest is by request, "Wuwul explained.

# Work Content Similarity Detection

Ithenticate actual application can not directly check whether a work belongs to the

category of plagiarism or not. Ithenticate systems work by finding the percentage of similarity of an uploaded document with other existed documents.

Ithenticate is not the kind of application that can be purchased and installed directly by the college. But, when purchasing Ithenticate, Tel-U got a username and password to access this application in www.ithenticate.com.

When accessing Ithenticate, then starting uploading documents, the application will immediately look into its database. One of the privileges is that it is able to penetrate into international journals, both of which have been subscribed by Tel-U or not. The goal is to find the document similarity to works that already existed in the journal.

"When there is content on the uploaded document similar to the existing scientific papers in international journals, Ithenticate will give information if these documents have in common in what percentage. So the part that is similar will be marked in red and be directly linked to an

When there is content on the uploaded document similar to the existing scientific papers in international iournals. Ithenticate will give information if these documents have in common in what percentage. So the part that is similar will be marked in red and be directly linked to an international journal in question. We can simply click on the journal pages to find out the similarities."

international journal in question. We can simply click on the journal pages to find out the similarities. But, if we do not subscribe to international

journals in question, the pages of the journal can not be clicked or opened. That is the output, "said Wuwul.

According to Wuwul, to decide if a work is considered plagiarism or not may refer to the provisions of the Directorate General of Higher Education (Dirjen Dikti), the percentage of similarity of documents. If the resemblance is still below 30 percent, it is not considered plagiarism. However, if the similarity is over 30 percent, it is considered plagiarism. Or provision of plagiarism can also be determined by each higher education institution.

Wuwul hope, the quota of 200 users will be quickly used up, because it is based on the needs of the institution. "If the quota of 200 is quickly used, we are happy, because this is also the beginning of the requirement. Ten thousand documents could be in the form of paper, proceedings, etc., and even could be in the form of Indonesian documents. We still discuss for the scientific final project (TA) of student, "he said.❖

#### EXTERNAL FUND RESEARCH 2015

# SCHOOL OF COMMUNICATIONS & BUSINESS

- MajorBachelor of BusinessAdministration
- Title
   Actualization of Social
   Organizations, Society, and
   The National Education Law,
   Politics and the Nation Character
   Development
- Researcher Team
  Dr. Yahya Arwiyah, S.H., M.H.
  Ir. A.M.A. Suyanto, MBA., DBA.
  Runik Machfiroh , S.Pd., M.Pd.
- Fund IDR 50,000,000
- SchemeCompetitive Grant Research

# SCHOOL OF APPLIED SCIENCE

- Major
   Diploma of Telecommuniction
   Engineering
- Title
  SRP Development (Universal
  Software Radio Peripheral) Based
  Systems Asteristik To Quadruple
  Play Service
- Researcher Team
  Hafidudin, S.T., M.T.
  Mochammad Fahru Rizal, S.T., M.T.
  Ir. Agus Ganda Permana, M.T.
- Fund IDR 63,000,000
- Scheme
   Competitive Grant Research



#### EXTERNAL FUND RESEARCH 2015

## Manufacturing Process Lab

# Learning CNC Optimization to Get Certification

"Practice makes Perfect". This expression is usually intended for anyone who wants to quickly master a skill. The more one practices, the faster he becomes an expert. It is the same as the learning process in college. Students will not be able to adapt in society if they are not equipped with the expertise. One of them is through activities in the laboratory.

urrently, learning in the classroom is not enough. Lecture materials require real practice closer to the reality in the world of work in the future. For that, there are laboratories that can accelerate the ability of students in terms of hard skills. In addition, the laboratory is to help the academic community to do research. So, not only learning in theory, but the practical expertise will also be

obtained.

Telkom University (Tel-U) is trying to equip students with the practices to prepare the students to face difficult situations in the world of work; one of them is laboratory facilities. Starting from the engineering to non-engineering fields, procurement of the laboratory is a major concern. The reason is that every year, the number of students continues to increase, so that the occupa-

tion and the availability of laboratory need to be taken into account.

One lab which is relatively new is the Manufacturing Process Laboratory which is under the School of Industrial Engineering (FRI). The new three-year stand, but the intensity of its use has been pretty solid. According to the Head of Trustees of Manufacturing Process Lab, Rino Andias Nugraha, ST, MM, in addition to practi-

## SCHOOL OF APPLIED SCIENCE

- Major
  - **Diploma of Informatics Engineering**
- Title
- Computer Assisted Learning (CAL) for Children with Special Needs (Limitations Hearing)
- Researcher Team
  - Retno Novi Dayawati, S.Si., M.T. Mahmud Dwi Sulistiyo S.T., M.T. Litasari Widyastuti Suwarsono S.Psi
- Fund
  - IDR 50,000,000
- Scheme
  - Competitive Grant Research
- Maior
- **Diploma of Infomatics Management**
- Title
- Designing and Using Educational Games "Indonesia Tribes "As a Means Playing and Learning for Students Kindergarten
- Researcher Team
- Pikir Wisnu Wijayanto, S.E., S.Pd. Ing., M.Hum. Duddy Soegiarto, S.T., M.T.
- Simon Siregar, S.Si., M.T.
- Fund
- IDR 52,500,000
- Scheme

**Competitive Grant Research** 

#### **LABORATORY**

cum, the lab is also used for research and certification of professions.

"This laboratory is aimed to support the course of the Manufacturing Process. In addition to practicum, TA research, lecturers and industry, it is used also for student certification. Industrial Engineering students are required to have certification. So, they are trained for 3-4 days, then are tested and received certification, "he said.

Certification of profession given by Manufacturing Process Laboratory is Computer Numerical Control (CNC) programming. Actually, the certification of students may be done off campus. Only Tel-U has not yet found a vendor who can issue certification of CNC Programming. Thus, Tel-U provides it by itself. The reason is that this lab is dedicated to the mastery of CNC machines to be used in the production process in the industry.

The CNC machine itself is

an automation system that is operated through commands abstractly programmed and stored in the storage media. This machine is an industrial revolution in the design process, thereby saving production time, but the results are still precise and meticulous. With CNC machines, the accuracy of a product can be guaranteed up to 1/100 mm, workmanship mass product with the exact same results, and fast machining time.

CNC machine has several parts, i.e. a program, a control unit / processor, an electric motor to drive the servo control chisel, an electric motor to move / rotate the chisel, a chisel, and a holder. There are two working principles of CNC machine.

First, programmers create a CNC program suitable with products to be made by typing directly on a CNC machine or create on a computer with CNC programming software. Second, CNC programs with (G-Code) are delivered and executed by the processor in the CNC machine, resulting in a servo motor controlling on the machine to move the gear that



moves the process of machining and produce products according to program cuts.

"Two kinds of CNC machines are milling and turning machines (lathe). CNC milling machines are used to produce parts that require a high degree of precision. While turning machine (lathe) is for the cylinder material. A non cilinder uses milling machines. Materials used can be metal or non-metal. For examples, producing parts or automotive

parts (motor), factories and others, "Rino said.

Especially in Manufacturing Process Lab of Tel-U, there are two CNC machines, four groover machines or mini size milling machine, and five CNC simulators. Groover machine is normally used to produce a soft material such as plastics, polymers, and wood. This machine is also more frequently used for practicum students. While the simulator is used for CNC programming training so that

## EXTERNAL FUND RESEARCH 2015

## SCHOOL OF APPLIED SCIENCE

MajorDiploma of Computer Engineer

Title
 Markers parking with Ultrasonic
 Sensor Utilizing Alternative Energy
 Solar Panels

Researcher Team
Giva Andriana Mutiara, S.T., M.T.
Anak Agung Gde Agung, S.T., M.M.
Rini Handayani, S.T., M.T.

■ Fund IDR 55,000,000

Scheme
Competitive Grant Research

the material does not directly enter the actual CNC machine to avoid risk. CNC machine owned by Tel-U currently has three motion axes (XYZ). While CNC machines in the industry already have more axis movements. The difference lies on chisel eye's ability in shaping the product.

To support the needs of practicum and research, Manufacturing Process Lab specifically employs the services of the retired of PT Dirgantara Indonesia (DI) as the laboran. According to Rino, the laboran already has 25 certifications, so he is quite an expert in his field. It is the laboran who will teach the students to practice and to develop laboratories and equipment in it. Furtheremore, the lab assistants are selected from third-vear students who have passed the course of CNC Programming and got an A. In every batch, 15 lab assistants are selected to serve as trainers on the certification of professions for their juniors.

"The difficult thing about CNC Programming lies on how to optimize it. For exam-

ple, when making / cutting, punching holes and scraping material. The difficult part is determining which steps should be done first. In order to optimize the use of the machine, meaning that we should optimize the program. Why? It is due to the use of large electricity of CNC machining. Moreover, the material is also expensive. If it is not optimal, the chisel can wear faster. It might cause the programming to be inconsequential for the not optimal finished product. For the correct optimization, the manufacturing of finished products can be done in five minutes. but if it is inconsequential. it may be up to two hours. So, the challenge is to make optimal and fastest program without changing the chises and others processes. Everyone can make a program, but not everyone can optimize it. It requires experience, understanding, and skill, " he explained.

Inspite of only three years of existence, Process Manufacturing Lab has established a wide range of cooperation with the industry to conduct

research and product manufacture. Among other things, the cooperation with the processing plant of Batik Komar, motor spare parts from Cikarang factory and textile factory in Banjaran related to molding machine of weaving patterns that are still running. In fact, according to Rino, because of the success of Manufacturing Process Lab when working with the mill motor spare parts in making the motor spare parts, new tools were provided for this lab by the factory.

Rino hopes that Manu-

facturing Process Lab can improve the completeness of its equipment and expand research activities that involve the lecturesr. Moreover, this lab is attempting to initiate research collaboration with the University Tun Hussein Onn Malaysia (UTHM). "One of the requirements of this cooperation is having the tools that we haven't had vet. to share the same contribution. Moreover, only a few of lecturers get involved in the researches in this lab. because the field is rather hard, " he concluded. \*



## Increasing Contribution towards the

# Research

## for Commercialization

The achievement of Telkom University (Tel-U) to become a world-class university which is brilliant in the field of research has brought changes to the research result targets. Previously, lecturers must publish their research results in international journals, but now, they are directed to the commercialization of the research results.

ntil now, Tel-U researchers are still pursuing various international publications to disseminate research results to the outside world. However, productoriented research has already been started in earnest on this campus as Tel-U wants greater contributions to the nation.

To that end, Tel-U has cooperated with Bandung Techno Park (BTP) to realize the results of their research work to be followed up in the form of ready-made product, ready for production until ready to enjoy by the wider community. This cooperation started in 2015 by initiating a number of research results of Tel-U lecturers by BTP. The goal was to find

out the feasibility of Tel-U during Research Downstream Program which began in 2016.

In 2015, Tel-U has 19 research results presented to the BTP to be selected towards the commercialization of research results. However, the success of this research downstream is largely determined by the willingness and openness of the industry and the Tel-U itself to commercialize its products.

It is not easy, given that most Tel-U researches are oriented to journals or scientific publications. However, the desire to contribute more to the community creates a shifting of a mindset on campus researchers.

Research certainly cannot be separated

#### **ACTUAL**

from its utilization in realworld applications. If during these days, Tel-U lecturer researches are more oriented on publications, there is no harm because it can enrich the scientific fields studied. However, if the research can produce real products that can be exploited by people, it will pronounce more effect on the researchers and institutions.

Research and Community Service (Penelitian dan Pengabdian Masyarakat - PPM) Unit, which manages the results of Tel-U researches, began to orient the researches not only towards the journals, but also towards commercial purposes. With the downstream study, campus gives significant contribution to the nation.

Tit for tat, as it turns BTP is highly concerned about the development of the research effort into something that can be sold to the public. BTP is a unit under Telkom Founda-

tion (YPT) that is in charge of helping to sell the results of research into the industry with synergy of education (academic), industrial (business), and the government.

According to the representatives of BTP, Iwan Iwut Tritoasmoro, ST, MT, there are three fundamental things as assessment factors. "There are three criteria for a study to enter the market, namely technology readiness, readiness of business models, as well as a solid team," he said.

Iwan explained the requirements of these three criteria. First, the readiness of technology where research must have really been completed up to 5 Technology Readiness Level (TRL 5). It means that the research prototype has already been tested in an appropriate environment. In terms of its components, they have been adjusted. As for products that are ready to be mass produced, normally readiness of the technology is in TRL 8 or 9.

Secondly, the readiness

When the product is offered to the market, there would be a validation process, for example, any shortcomings or anything that needs fixing as a kind of feedback from the industry to the researchers."

of the business model which should be superior and unique to be the productmarketability. For example, the product is not only good in concept, but also has the advantage to be sold to the public. If the product is good, but there is no business model, it will not be sold.

Finally, a solid team which should be able to accompany the product until it is ready for sale to the industrial market.

"When the product is of-

fered to the market, there would be a validation process, for example, any shortcomings or anything that needs fixing as a kind of feedback from the industry to the researchers. Well, this is where the function of the team is solid and complete to be able to adjust to the possibilities of the failure (jail development). A solid team should be able to accept inputs to improve more products, "Iwan said. •





#### ACTUAL

## School of Electrical Engineerinf

- MajorTelecomunicationEngineering
- Title
  Position Information System
  for Fishermen
- Researcher
  Angga Rusdinar, S.T., M.T., Ph.D.
- Major Electrical Engineering
- Title
  Weather Forecasting
  Information for Boat Prot
- Researcher Ramdhan Nugraha, S.Pd., M.T.
- Major Electrical Engineering
- TitlePortable Turbine GeneratorUsing Bulp
- Researcher

  Reza Fauzi Iskandar, S.Pd., M.T.
- Major Physics Engineering
- Title Portable Refrigerator
- Researcher
  Tri Ayodha, S.T., M.Eng.

## Research Incubation with BTP 2015

- Major
- **Physics Engineering**
- Title
  Anaerobic Reactor CSTR
  type laboratory scale
- Researcher
  M. Ramdlan Kirom, S.Si., M.Si.
- MajorTelecomunicationEngineering



#### ■ Title

- Antenna Design Frequency Reconfiguration with Transmission Line Modeling Loss
- ResearcherDr. Bambang Setia Nugraha,S.T., M.T.

## School of Industrial Engineering

- MajorIndustrial EngineeringInformation System
- TitleAdvance Database with MySQL and Oracle
- Researcher Team
   R. Wahyoe Witjaksono
   Muhammad Azani Hasibuan
   Riza Agustiansyah
   Nur Ichsan Utama
- Major Information System
- Title
  Mini Green Power Plant
- Researcher Team
  Rd. Rohmat Saedudin
  Andri Gautama



- MajorInformation SystemIndustrial Engineering
- Title
  Mini Green Train
- Researcher TeamRD. Rohmat SaedudinHaris Rachmat

#### **School of Computing**

- Major Informatics Engineering
- Title

  Development of Islamic

  learning application for Kids
- ResearcherMira Kania Sabariah
- Major Informatics Engineering
- Title
   exploiting IT Growing Taste
   for Love Motherland in
   Children
- ResearcherDody Qori Utama
- Major Informatics Engineering
- Title
   Awareness Raising Case
   Against Hiring Minors
   Through Game
- ResearcherDody Qori Utama
- Major Informatics Engineering
- Title
   Web Application
   Development for Developing
   Delivery Business
- ResearcherMira Kania Sabariah



### School of Applied Science

- MajorDiploma of InfomaticsManagement
- Title
  Application monitoring
  Thesis / Final Project
- Researcher Team
   Wardhani Muhammad
   Dahliar Ananda
   Aas Suhendar
   Muhammad Khusnan
- MajorDiploma of InformaticsEngineering
- Title
  - Andi adventure
- Researcher Team
   Muhammad Fauzan
   Mutia Noor Hafid
   Herlangga Wicaksono

- MajorD3 Teknik Telekomunikasi
- Title SQUARELOCK
- Researcher Team
   Denny Darlis
   M Salman Abdul Qohar
   Yuda Oktavian
   Laode M Rayhan
- MajorDiploma of TelecomunicationEngineering
- Title
  Light Phone
- Researcher Team

  Denny Darlis

Hasanah Putri Gusti Iqbal Rinaldi

- MajorDiploma of ComputerizationAccounting
- Title
  Application Control
  Installment Credit Sales To
  Determine Per Period Method
  Annuity Due Compound
  Interest
- Researcher Team
  Risma Siti Maryam
  Asti Widayanti
  Irna Yuniar
- MajorDiploma of ComputerEngineer
- Title
  Practice Kit Microcontroller,
  and Peripheral Interface
- Researcher Team Simon Siregar Cyntia Aris Pujud



RESEARCH GROUP Expertise Group of Accounting Information Systems

# Creating an Aplication towards *Cashless Society*



Speaking of money, it has to be detailed in the reporting. It has to be applied not only in large companies, small and medium enterprises, but also in the domestic sphere. To that end, the accounting is presented as a solution to modern financial records. But in the current era of modern technology, the issue of financial reporting, taxation, and other accounting fields issues no longer need to be done manually. Hence, Telkom University (Tel-U) has a course of Computerized Accounting.

tudies in Accounting collaborated with technology at Tel-U, among others, are performed in the Expertise Group (Kelompok Keahlian - KK) of Accounting Information System (Sistem Informasi Akuntansi - SIA) in the School of Applied Sciences (Fakultas Ilmu Terapan - FIT). KK focuses on the field of information technology (IT) –Accounting based, including information about the system of taxation, finance, and others.

According to the Chairman of KK SIA, Anak Agung Gde Agung, ST, MM, KK SIA was established along with the merger of Tel-U in 2013. Earlier, KK of Accounting stood apart from KK of Information System. In addition to monitoring the research activities of lecturers and formulating the teaching materials for the field of Computerized Accounting, KK is currently developing a business incubator and research. "We are developing a business incubator and research. Currently, the lab is being prepared at FIT," he said.

To support research and learning activities, KK SIA already has two laboratories, the Laboratory of Enterprise Resources Planning (ERP) and the laboratory of Accounting. ERP laboratory focuses on the study of technology, such as the use of SAP applications and modifications to the application, while the Accounting Laboratory examines the problems in accounting, taxation and finance.

"We intended to underway business incubators and research laboratories for the next semester, according to the new curriculum. Currently, we prioritize the students who are doing final projects, "Agung added.

KK SIA has 16 members and all are FIT lecturers. For the direction of the research, this KK has created a number of applications that can support the activities in the field of accounting, tax, finance, production, and so on. In addition, SIA KK directs research on financial records. "So, when the studnts do a Final Project (Proyek Akhir - PA), they also write a journal. There may be more adjusment in the new curriculum, " explained this lecturer of Information System.

Agung admitted that the understanding of the study program of Computerized Accounting which oversees KK SIA is still under debate. Although part of this study program is related to accounting, this study program falls under the Information Systems considering several similar studies abroad are under the specialization of Information Systems, because the portion of the IT is larger. However, according to Agung, for Computerized Accounting study program at Tel-U, the portion of the learning tends to be balanced and will be adjusted in the new curriculum in the upcoming odd semester of 2016.

Accounting Information Systems itself has three important functions in an organization. First, collecting and storing data about the activities and transactions. Second, processing the data into information that can be used in the decision making process. Lastly, precise controlling of the assets of the organization. Accounting Information

## RESEARCH GROUP

Systems has subsystems dedicated to processing a variety of financial and non financial transactions that directly affect the financial transaction processing.

There are three subsystems in Accounting Information Systems. Those are transaction processing systems that support the daily business operations, general ledger system / financial reporting, as well as the closure system and reversal. Last subsystem is a reversal and closure of reports created with reversing entries and journal covers producing financial statements, such as profit / loss, balance sheet, cash flow, tax returns, and so forth.

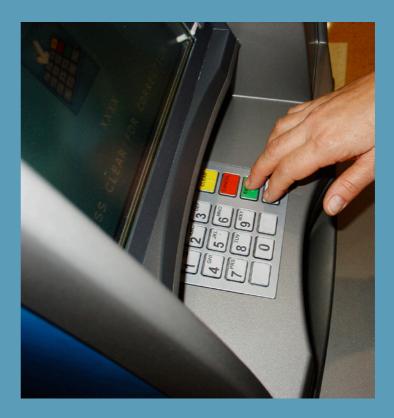
For its implementation, in addition to conducting the research in this field, KK SIA has also collaborated with industry, usually small and medium enterprises (SMEs) that were targeted as KK SIA research. The reason is because there are

many SMEs having problems since they have no Accounting Information Systems or irregular financial recording process. As for cooperation with banks, according to the Court, it remains a challenge.

"The cooperation with related SIA banking is still difficult, because of issues of confidentiality and sensitivity of the data. As for SMEs, we have often helped many SMEs in the socialization and tax reporting. These activities were conducted at the community service. For the field of taxation, we usually help or do the PA in the form of a simulation calculation. Although only a simulation, students can understand the real world implementations and helps users of the application in the calculation of the tax, " Agung said.

#### **Cashless Society Research**

Although the KK SIA is new, it has already directed its



research to the development of business incubators and research. Moreover, in line with the wishes of Tel-U which leads to the concept of digital-based smart living, KK also assisted in planning the concept of Accounting Information Systems-based smart living. It is because the concept of digital-based smart living at Tel-U has been gradually implemented; one of them is with the use of T-Cash

for lunch payment tool for lecturers and students.

T-Cash is a product of PT Telkomsel which can be used as means of payment in some places. According to Agung, this concept can be expanded with the implementation of the cashless society for the academic community of Tel-U. For example, T-Cash system is integrated in the Student Identity Card (KTM).

"To go towards a cashless society, reforming must be done first, starting from reinforcing the infrastructure and creating strong regulations. The most important thing is to change the culture of the community towards the digital direction. Those are our targets, "he continued

It may not be easy to realize the plans of each KK that has different research roadmaps. This also applies at Tel-U which has 32 KKs. However, there is no harm in utilizing the facilities already provided by the university, as done by KK SIA.

To realize the concept of a cashless society, it starts from research laboratories and a clear roadmap. Thus, research funding and assistance for publications provided by the university should be best utilized. According to Agung, it is better to accelerate and motivate researchers, particularly the ones

in KK SIA.

"In fact, now there are also grants from Alumni Forum (FAST) that are followed up in addition to several research schemes of Tel-U. Indeed, one of the challenges today is the bustle of lecturers in structural position. To coordinate, in addition to holding meetings, we also make use of email and social media. For example, just like this moment, discussing the title of PA is more effectively done through social media rather than meeting in person, " he said.

Agung hopes that there will be an increase in facilities and infrastructure of the university, especially the addition of the laboratory, because the vocational students need a lot more practice than theoretical understanding. Research carried out will be more on implementations of a product or application to solve a problem (case study). Ideally, students get a portion

of the practice of vocational and practical learning as much as 70% rather than the theoretical one.

"The increase in the number of students of Applied Science still has not been accompanied by the improvement in the facilities and infrastructure, especially the laboratories for practical work. As for teaching and learning activities, they have been helped by a gen-

eral lecture hall. Laboratories should also be added. We hope, KK is contributing to the real world, no matter how much, for example, our students assist SMEs which often suffer losses. Besides that, our students can assist to improve financial records, and to create supportive applications. Although it may be seen as a small impact, but it provides benefits to the real world, "he said. •



# ICOICT 2015

**CONFERENCE** 

3-D Printed Ultrasound Lets Blind Mother-to-Be Meet Her Unborn Baby

ICoICT 2015

# Conference Must Make a Contribution

"No matter how good one's ideas or research results, they will not be recognized by others if they are not conveyed in a peer reviewed paper." This phrase often serves as a motivation for researchers to be able to publish his/her work to the community. The reason is that a work would be considered good if it is already recognized by others, given the assessment, and may be used as a reference for future research.



his also applies to Telkom University (Tel-U) which always encourages lecturers to publish their research results. Nonetheless, the number of researches published at international level still needs to be improved. Therefore, in addition to encouraging researchers to publish the research results to the community, Tel-U also provides a means of publicizing held by internal parties.

Thus, every school at Tel-U is required to host international conferences. The goal is, in addition to serving as a publication media for internal researchers, to invite external parties to participate.

One of the conferences that have been regularly held at Tel-U every year is the International Conference on Information and Communication Technology (ICoICT). It was initially organized by Telkom Institute of Technology since 2013, but since 2015, organized by the School of Computing of Tel-U. Although considered new, the interest of the participants in this conference is relatively high. In 2015, ICoICT was held again in Kuta, Bali, on Wednesday -Friday (27 - 29/5).

According to the Committee Chairman of ICoICT 2015, Dana SulistiyoKusumo, Ph.D., the purpose of conducting ICoICT in Bali was to attract many participants from other countries. "Bali is well known abroad, so it was held in Bali to draw more participants from abroad," he said.

Dana added that Tel-U collaborated with the Information Technology department of Udayana University, the oldest state university in Bali. Not only that, ICoICT 2015 employed collegial systems of Tel-U lecturers with a number of potential speakers from abroad. It was easier for Tel-U in carrying out international conferences because the speakers were well known.

One of the keynote speakers invited to the ICoICT 2015 was Prof.Kouichi Sakurai coming from Kyushu University, Japan. He was previously the PhD thesis supervisor of Tel-U's Vice Dean II of School of Computing during her doctoral program. Another keynote speaker was Prof. Mike Wald of the Universityof Southampton, UK. Prof. Wald was a colleague of Dade Nurjanah, PhD, the Director of

Tel-U Graduate School and Advanced Learning, when she was completing her doctoral program at the University of Southampton, England.

The theme for the 2015 ICoICT was "Smart ICT for Daily Life". With this theme, 114 papers were submitted and screened for display. A total of 68 papers came from Tel-U. The conference itself wasfocused on the field of Informatics and covered the fields of Computer Science, ICT, and others. The confere was technically sponsored by IEEE's Indonesia section.

According to Dana, compared to similar conferences abroad, ICoICT is still somewhat more general in nature because the Informatics can be broken down into several subdisciplines. Even so, the participants' interest was moderately high in this conference. In fact, the conference has already been indexed in Scopus and IEEE.

"Usually, a conference is said to be bona fide or prestigious if the field of study is highly specific. It is because in the future, the generated contribution to knowledge is already deep. But, although the coverage of ICoICT is still considered general, it

#### CONFERENCE

does not simply mean that this conference is less prestigious than other similar conferences, because the submitted papers are fairly prominent, " said Dana.

The management system of a conference greatly affects the quality of the conference. To that end, ICoICT is strived to be organized with strong international environment annually. Although the organizer isTelkom University, ICoICT is planned to be held not only in Indonesia or in Bandung. The result can be seen from the incoming papers.

In 2015, there were 15 countries participating in this conference, among others, Saudi Arabia, Japan, the United Kingdom, the People's Republic of China, Malaysia, Indonesia, Switzerland, Germany, Italy, Australia, New Zealand, Czech Republic, Taiwan, India, Sri Lanka, and Thailand. In fact, Malaysia has always been the second country with the largest number of papers submitted to this conference.



"This conference has been pretty consistent, and began to receive attention and a place in the wider academic environment, not only in Indonesia." Dana said.

According to Dana, holding a conference, especially the international one, can be fairly tricky. It could be easy, if you have obtained good recognation. However, it could also be difficult when reviewing the submitted papers. When the quality of the submitted papers are either bad or problematic, it will impact on the conference itself and its indexing.

"The cross-reviewing system is applied during the paper review process. For example, if the incoming papers are from Tel-U, the reviewer should not come from Tel-U as well to avoid the conflicts of interest, "Dana said. The review process was also double-blind review.

ICoICT 2015 already has a good track record because it has been indexed in IEEE and Scopus. Moreover, in terms of the materials presented, ICoICT 2015 has contributed to the use of technology in everyday life. It was disclosed by one of ICoICT 2015 keynote speakers, Prof. Mike Wald, entitled "Digital Ac-

cessibility". In his presentation, Prof Wald mentioned that technology can assist people with special needs in living their lives. For example, the conversion of text-to-speech which can be used by the visually impaired people.

Hence, Dana hopes that the next ICoICT activities can involve more participants, especially from abroad because it will increase the recognition and the level of the conference. "So, later on, an international conference will be perceived as something that is needed and makes a contribution," he affirmed. \*



#### SCHOOL OF ELECTRICAL ENGINEERING

- A DC Motor-Reaction Wheel Control Design via Guaranteed Cost Output Feedback Controller of Uncertain Neutral Systems
- Author Erwin Susanto
- Publisher Icic Express Letters
- Applied Current Injection and Magnetic Field Induction Simultaneously on Electrical Impedance Tomography
- Author

  Dudi Darmawan
- Publisher
  International Journal of
  Tomography and Simulation
- Automatic Watering Plant
   Application Based on Android and Web Using REST Protocol
- Author
  Fairuz Azmi
  Agung Nugroho Jati
- Publisher

  Jurnal Teknologi
- Correlation Between Lattice Vibrations With Charge, Orbital, And Spin Ordering In The Layered Manganite Pr 0.5 Ca 1 . 5 MnO 4

- Author
   Ismudiati Puri H.
   Aa Nugroho
   S. Riyadi
   GR. Blake
   N. Mufti
   TTM Palstra
   PHM Van Loosdrecht
- Publisher

  Physical Review B
- Design and Integration APA (AQUAPONIC AUTOMATION)
   Hardware Based on Internet of Things
- Author
  Fairuz Azmi
  Agung Nugroho Jati
- Publisher

  Jurnal Teknologi
- Evaluation of Moving Object
   Detection Methods Based on
   General Purpose Single Board
   Computer
- Author
  Agung Nugroho Jati
  Ledya Novamizanti
  Mirsa Bayu Prasetyo
- Publisher
   Telkomnika Indonesian
   Journal of Electrical
   Engineering
- Guaranteed Cost Control for Uncertain Neutral Systems with a Minimal Order Observer
- AuthorErwin SusantoJunartho Halomoan
- Publisher Telkomnika

- Highly Oriented ZnO:Al
  Thin Films as an Alternative
  Transparent Conducting Oxide
  (TCO) for Windows Layer of
  Solar Cells
- Author
  Edy Wibowo
  Putut Marwoto
  Sugianto
  Sulhadi
  Didik Aryanto
  Yanti
- Publisher
   Advanced Materials
   Research
- Implementation of Maximum Power Point Tracking on Photovoltaic Using Fuzzy Logic Algorithm
- Erwin Susanto
  Unang Sunarya
- Publisher

  TELKOMNIKA, Universitas

  Ahmad Dahlan Yogyakarta

  Dan IAES
- Intelligent Interface for Knowledge Based System
- Nyoman Bogi Aditya Karna
- PublisherTelkomnika, UAD
- Low-Energy Bead-Mill
  Dispersion of Agglomerated
  Core Shell -Fe/Al2O3 and
  -Fe16N2/Al2O3 Ferromagnetic
  Nanoparticles in Toluene
- AuthorAsep Suhendi

- Publisher

  Langmuir, Washington,
  DC 20036
- Preparation and Characterization of Magnetic Films Of Well-Dispersed Single Domain Of Core Shell -Fe16N2/Al2O3 nanoparticles
- Author
   Asep Suhendi
   Rizka Zulhijah
   Takashi Ogitoru Iwaki
   Kikuo Okuyama
- Publisher
  Advanced Powder
  Technology
- Preparation And Evaluation
   Of Magnetic Nanocomposite
   Fibers Containing -Fe16N2
   And -Fe Nanoparticles In
   Polyvinylpyrrolidone Via
   Magnetoelectrospinning
- Author
  Asep Suhendi
  Christina W Kartikowati
  Rizka Zulhijah
  Takashi Ogitoru Iwaki
  Kikuo Okuyama
- PublisherNanotechnology
- Raman Spectra of Multiferroic TbMnO3
- AuthorIsmudiati Puri H.
- Publisher
   Journal Of Advanced Material
   Research, Advanced Material
   Research And Production,
   Switzerland

- Signal Domain in Respiratory Sound Analysis: Methods, Application, and Future Development
- AuthorAchmad Rizal
- Publisher

  Journal of Computer Science
- The Detection of Straight and Slant Wood Fiber Through Slop Angle Fiber Feature
- Author
   Ratri Dwi Atmaja
   Erwin Susanto
   Junartho Halomoan
   Muhammad Ary Murti
- Publisher

  TELKOMNIKA Indonesian

  Journal of Electrical

  Engineering Vol 14 No 2
- The Effect of Mesh Network on ECG Data Transmission by Xbee Toward The Data Error Rate
- Author
  Sugondo Hadiyoso
  Ratna Mayasari
  Achmad Rizal
- Publisher
   ARPN Journal of Engineering
   And Applied Sciences

- Theoretical Analysis of Resonant Frequency for AMCbased Absorber Composed of Square Patch Array
- Author Levy Olivia Nur
- Publisher
  International Journal on
  Electrical Engineering and
  Informatics, Bandung
- Uniform Non-Exhaustive Search on Sparse Reconstruction for Direction of Arrival Estimation
- Author

  Koredianto Usman,
- Publisher
  IEEE Asia Pacific on Wireless
  And Mobile Conference 2015
  (Apwimob2015), Bandung,
  Indonesia
- Wood Image Real-Time Segmentation Algorithm Based On Video Processing
- Author

  Ratri Dwi Atmaja,
- Publisher
   International Journal of
   Imaging and Robotics, India

# SCHOOL OF INDUSTIAL ENGINERING

- A Maintenance Task
  Optimization of the BTS
  Using RCM and LCC Methods
- Author

  Rd. Rohmat Saedudin
- Publisher
   2015 International
   Conference on Industrial
   Internet of Things, Samosir
   Sumatera Utara
- Developing Trust and Privacy in E Government Service
   Base on UTAUT Model
- AuthorDeden Witarsyah
- Publisher
   2015 International
   Symposium on Social
   Science, Arts and
   Humanities, Bali Indonesia
- Engineering Information
   Technology Value in IT Based Industries Using
   Partial Adjustment Valuation
   and Resource-Based View
   Approach
- Author
   Lukman Abdurrahman
   Suhardi Dan Armein Z.R.
   Langi (STEI & ITB)
- Publisher
  Int. J. Information and
  Communication Technology

- Developing Institutional Model for Association of Agricultural SMEs
- Author
   Atya Nur Aisha
   Endang Chumaidiyah
   Farda Hasun
   Nanang Suryana
- Publisher
  2015 International
  Conference on Engineering
  Management and Industrial
  Technology / Advanced
  Science Letters
- The Role Of Characteristics
  Human Behavior In Software
  Development Team To
  Improve Source Code Quality
- Author
  Tien Fabrianti Kusumasari
- Publisher
  International Journal of
  Applied Engineering
  Research (IJAER)



### SCHOOL OF COMPUTING

- Implementing Process
  Mining to Improve Cobit 5
  Assessment Program for
  Managing Operations (Case
  Study: A University Blog)
- AuthorAngelina Prima KurniatiImelda Atastina
- Publisher

  Journal of Theoretical

  and Applied Information
  Technology, Islamabad,
  Pakistan
- Cancer Detection Based on Microarray Data
   Classification Using PCA and Modified Back Propagation
- AuthorAdiwijayaArie Ardiyanti Suryani
- Publisher
   Far East Journal of
   Electronics and
   Communications
- Convergence Analysis of Cooperative Q-Learning Using Discrete-Time Lyapunov Approach
- Author

  Bayu Erfianto
- Publisher
  ICIC Express Letters
- Design of 3D Geological Model Application for Nickel Resources

- Author
   Sri Suryani Prasetyowati
   Yuliant Sibaroni
- Publisher

  Jurnal Teknologi
- SoC Design Methodology as Systematic Steps for Handling SoC Design Complexity based on Hardware/Software CoDesign
- Author
   Maman Abdurohman
   Endro Ariyanto
   Novian Anggis Suwastika
- Publisher
  International Conference
  On Advances Technology
  In Telecommunication,
  Broadcasting, and Satellite
  2014 (Telsatech 2014), Kuta,
  Bali, Indonesia
- Quantum Feedback
   Network Under Darboux
   Transformations
- Agung Trisetyarso
   Publisher

Author

- PublisherApplied Physics B
- Numerical Simulation of Temperature History in Gun Barrel using Finite Volume Method
- AuthorDede TarwidiErwin Budi SetiawanRian Febrian Umbara
- PublisherApplied MathematicalSciences Journal

- Numerical Simulation of Traffic Flow via Fluid Dynamics Approach
- Author
   Erwin Budi Setiawan
   Dede Tarwidi
   Rian Febrian Umbara
- Publisher

  Applied Mathematical

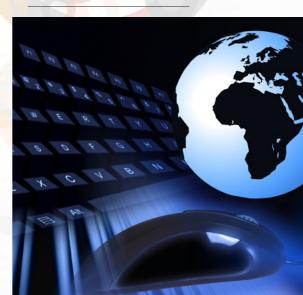
  Sciences Journal
- Software for Simplifying Embedded System Design Based on Event-Driven Method
- AuthorMaman Abdurohman
- Publisher
  International Journal of
  Electrical and Computer
  Engineering (IJECE)
- Planting Calendar
   Forecasting System Using
   Evolving Neural Network
- Fhira Nhita
  Adiwijaya
  Untari Novia Wisesty
  Izzatul Ummah
- Publisher
  Far East Journal of
  Electronics and
  Communications, India
- Some Graphs In CF 2 Based On F-Colouring
- Author
  Adiwijava
- Publisher
  International Journal of Pure
  and Applied Mathematics

- Spatial Analysis 3D Geology Nickel Using Ordinary Kriging Method
- AuthorSri Suryani PrasetyowatiYuliant Sibaroni
- Publisher

  Jurnal Teknologi
- Strengthening Crypto-1
   Cipher against Algebraic
   Attack
- AuthorFarah AfiantiAri Moesriami Barmawi
- Publisher

  Journal of ICT Research and

  Applications, ITB, Bandung
- Value-at-Risk and Expected Shortfall Relationship
- Author
  Aniq Atiqi Rohmawati
- Publisher
   International Journal of
   Applied Mathematics and
   Statistics



# SCHOOL OF ECONOMICS & BUSINESS

- A Proposed Model for Measuring Instant Messenger Applications Adoption among Indonesians and Malaysians
- AuthorIndrawati
- Publisher

  Mediterranean Journal of
  Social Sciences
- An Integrated Talent
   Management System:
   Challenges for Competitive
   Advantage
- Author
  Ratri Wahyuningtyas
- Publisher
  International Business
  Management, Pakistan
- Analysis on Voucher Wifivia Sms Adoption By
   Mobile Phone Subscriber In Indonesia Utilising Modified
   Model Of Utaut2
- AuthorMaya Ariyanti
- Publisher
  International Conference On
  Science, Technology And
  Management (ICSTM)
- David vs. Goliath: Uncovering the Future of Traditional Markets in Indonesia
- Author Fajar Sidiq Adi Prabowo

- Publisher

  Mediterranean Journal of
  Social Sciences, Corso
  Vittorio Emmanuele II,
  244 00184, Rome, Italy
- Defaultable Bond Pricing
  Model at Maturity Time
- Author Nora Amelda Rizal Sudarso Kaderi Wiryono Budhi Arta Surya
- Publisher

  Advanced Science Letters
- Employee Turnover Intentions in Hotel: How to Reduce It
- Author
  Ratri Wahyuningtyas
- Publisher

  Advanced Science Letters
- Environmental Performance towards Sustainable
  Development: A Review of Clean Production Policies in Indonesia
- Author

  Astrie Krisnawati
- Publisher

  Jurnal Teknologi
- Measurement for Analyzing Instant Messenger
   Application Adoption Using a Unified Theory of Acceptance and Use of Technology 2
- AuthorIndrawatiGA Made Mas Marhaeni

- PublisherInternational BusinessManagement, Bali
- Modeling an Effective Corporate Social Responsibility in Alignment with Good Corporate Governance Based on Indonesian Legal Regulations
- Astrie Krisnawati
- Publisher
  International Conference
  On Business, Management,
  Tourism And Hospitality 2015
  (Bizmatour 2015) / Advanced
  Science Letters
- Sentiment Analysis Based
   On Appraisal Theory for
   Marketing Intelligence in
   Indonesia S Mobile Phone
   Market
- AuthorAndry AlamsyahHerry Irawan
- Publisher
   Journal Of Theoretical And
   Applied Information
   Technology
- Study on Structure and Performance of Telecommunication Services Industry in Indonesia
- Author
   Risris Rismayanis.Mb.S.Pd.
   MM
   Yudi Pramudiana

- Publisher
  Conference of
  Telecommunication Media &
  Internet Techno \_Economics
  CTTE 2015
- Taking Optimal Investment
  Decisions when Stochastic
  Volatility and Inflation Effect
  were Considered
- Author

  Nora Amelda Rizal
- Publisher
   2015 International
   Symposium On Sciences And Mathematics (Isysm2015),
   Bandung, Indonesia
- The Determinant of Financial Distress on Indonesian Family Firm
- Author

  Farida Titik Kristanti

  Sri Rahayu
- Publisher
  Elsevier Procedia Journal
- The Relation of Social Media Understanding to Way of Starting Business
- Author

  Jurry Hatammimi

  Osa Omar Sharif
- Publisher

  Advanced Science Letters

# SCHOOL OF ECONOMICS & BUSINESS

- The Use of Modified Unified Theory of Acceptance and Use of Technology to Predict the Behavioural Intention toward Website (A Case Study in ABC University in Indonesia)
- Author IIndrawati
- Publisher
   Applied Mechanics and
   Materials. Shanghai
- Utility Marked-to-Market
  Optimal Asset Allocation
- Author

  Nora Amelda Rizal
- Publisher
  2015 International
  Symposium on Sciences and
  Mathematics (Isysm2015),
  Bandung, Indonesia
- Women Entrepreneurship in Islamic Perspective: A Driver for Social Change
- Author
   Grisna Anggadwita
   Hendrati Dwi Mulyaningsih
   M. Yahya Arwiyah
- Publisher
  International Journal of
  Business and Globalisation

#### SCHOOL OF COMMUNICATIONS & BUSINESS

- Academicians-Writing Level:
   A Challenge for Universities
   to Improve Their Human
   Resource Performance
- Author lis Kurnia Nurhayati
- Publisher
  International Journal of
  Business And Society
- Enhancing Innovation in Quadruple Helix Perspective: The Case of the Business Incubators in -Indonesia
- Author

  Hendrati Dwi Mulyaningsih
- Publisher
  International Business
  Management Vol 9 Issue 4,
  2015 (ISSN: 1993-5250 Scopus Indexed Q3), Pan
  Nirwana Hotel Bali
- Health and Safety
   Management Influence on the Employees Productivity
- AuthorAde Irma Susanty
- PublisherActual Problems ofEconomics
- Knowledge-Based Social Innovation in Social Enterprise.
- A Conceptual Framework
- Author

  Hendrati Dwi Mulyaningsih
- Publisher

  Advance Science Letter,

  Bali Indonesia

# SCHOOL OF CREATIVE INDUSTRIES

- Analysis of Political Marketing on Legislative Election
- Author
   Achmad Manshur Ali
   Suyanto
   M. Yahya Arwiyah
   Runik Machfiroh
- PublisherActual Probles EconomicJournals
- Capturing Characteristics of The Conceptual Ideation Process of Master Craftsperson's to Inform Design Education:
  A Comparative Study of Rural Craft Practitioners In Indonesia And in The UK
- Author
  Deny Willy Junaidy
- Publisher

  Journal of Design Research

  (JDR), Delft University of
  Technology, Netherlands

#### SCHOOL OF APPLIED SCIENCES

- Application of Final Project Progress Reporting In Diploma of Informatics Management Study Program Telkom University
- Author

  Wardani Muhamad
- Publisher

  Jurnal Teknologi
- Automation System
  Hydroponic Using Smart
  Solar Power Plant Unit
- Author
  Simon Siregar
  Marlindia Ike Sari
  Rakhmi Jauhari
- Publisher

  Jurnal Teknologi
- Design Prototype of Robot Explorer Terrain Natural Disasters for Mainland Field
- Author

  Giva Andriana Mutiara

  Gita Indah Hapsari
- Publisher
   Journal of Theoretical and
   Applied Information
   Technology, Pakistan
- Designing A Data
   Governance Model Based On
   Soft System Methodology
   (SSM) In Organization
- AuthorHanung Nindito

- Publisher
   Journal of Theoretical and
   Applied Information
   Technology
- Development of Wireless Patient s Vital Sign Monitor Using Wireless LAN (IEEE.802.11.b/g) Protocol
- Author
   Achmad Rizal
   Vera Suryani
   Jondri
   Sugondo Hadiyoso
- Publisher
  International Journal of
  Electrical and Computer
  Engineering (IJECE),
  Universitas Ahmad Dahlan
  (IAES)
- Evaluation of Security in Software Architecture Using Combination of Atam and Stride
- Author

  Prajna Deshanta Ibnugraha
- Publisher
  Journal of Theoretical and
  Applied Information
  Technology
- Image Reconstruction Based on Compressive Sampling Using Iteratively Reweighted Least Squares and Orthogonal Matching Pursuit
- Author Indrarini Dyah Irawati
- Publisher

  Jurnal Teknologi

- Improving Quality of Accounting Information Through Transformational Leadership: A Review
- Author
  Nelsi Wisna
- Publisher
  International Business
  Management
- Information System of Elementary School Administration
- Author

  Wardani Muhamad
- Publisher

  Jurnal Teknologi
- Lan-Based Application of File Management In The Computer Laboratory of School of Applied Science
- Author

  Tedi Gunawan

  Reza Budiawan
- Publisher
   Journal of Theoretical and Applied Information
   Technology
- Organizational Culture and Its Impact on the Quality of Accounting Information Systems
- AuthorNelsi Wisna
- Publisher
   Journal of Theoretical and Applied Information
   Technology
- Potential Core Resources of Bandung Techno Park as Tourist Attraction

- AuthorErsy ErvinaAdrian Agoes
- PublisherJournal of Hospitality and Tourism
- Proposed It Financial
  Management Process
  Using Itil (It Infrastructure
  Library) For Port Company in
  Indonesia
- Author Dedy Rahman Wijaya
- Publisher
  Journal of Theoretical
  and Applied Information
  Technology, Little Lion
  Scientific Islamabad
  Pakistan. No 740 Mr Iii,
  G-15/1, Islamabad. Pakistan
- Responsiveness of GPS Data Capture AR Drone 2.0 against Factor Weather, Temperature and Wind Speed
- AuthorGiva Andriana Mutiara
- Publisher

  Arpn Journal
- Risk Analysis of Database
  Privilege Implementation in
  SQL Injection Case
- Author
   Prajna Deshanta Ibnugraha
   Lukito Edi
   Nugrohowidyawanpaulus
   Insap Santosa
- Publisher
  Jurnal Teknologi 2015
  Advanced Research in
  Electrical and Electronic
  Engineering Technology

- Robust Edge-Stop Functions for Edge-Based Active Contour Models in Medical Image Segmentation
- Agus Pratondo
  Chee-Kong Chui
  Sim-Heng Ong
- Publisher

  IEEE Signal Processing

  Letters
- Routing Implementation
   Based-On Software Defined
   Network Using RYU
   Controller and Open Switch
- Author
  Yuli Sun Hariyani
  Indrarini Dyah Irawati
  Danu Dwi Sanjoyo
- Publisher

  Jurnal Teknologi
- Spanning Tree Protocol Simulation Based On Software Defined Network Using Mininet Emulator
- Author Indrarini Dyah Irawati
- Publisher
  ICSIIT 2015 (4th International
  Conference on Soft
  Computing, Intelligent
  System and Information
  Technology), Bali, Indonesia
- Transmission GPS as Text Form Through Wireless on Drone 2.0
- Author
   Aris Pujud Kurniawan
   Giva Andriana Mutiara
   Gita Indah Hapsari
- Publisher

  Jurnal Teknologi



You often hear the term "patent"? Typically, this term is used to indicate that the authenticity of a product or goods is guaranteed. The term patent is also used for an item recently discovered and can not be imitated. In legal terms, the patent is now an important aspect of a technological invention. Thus, the patent regulation, the procedure to be patented, and others are already regulated in the state legislation.

eferring to Law No. 14 of 2001, it becomes the basis of patent law. It is mentioned that, any activity of solving a specific problem in the field of technology, either in the form of a product of process, is referred to invention and may be registered under the patent protection as long as it meets the basic principles of protection registration of Intellectual Property (Kekayaan Intelektual - KI), i.e. considered novel, involving inventive steps, and considered industrial applicable. Some examples of patents that can be registered among other are machine technology, machine production process, drug manufacturing process, chemicals, and others.

Basically, protection towards Intellectual Property is divided into two kinds, namely Copyright and Industrial Property Right.

Copyright is defined as the exclusive right which arises automatically under the declarative principle after a work is manifested in a tangible form without prejudice to the provisions of prevailing laws and regulations. Copyright covers a work in the form of arts (including fine arts, sculpture), science (computer applications, papers, books), and literary works (poetry, adapted work, anthology).

Industrial Property Rights consists of several types of KI; one of them is patent. In addition to patent, there are several other types of Industrial Property Rights, i.e. brands (such as logos, symbols), industrial

designs (such as designs of simple tools, machine design, packaging), layout design of integrated circuits (such as integrated electronics on semi-conductor equipment). Then, there is the geographical indications (typically related to an object associated with a characteristic of a region), the protection of plant varieties (such as new crop varieties, tissue culture, cell culture), as well as trade secrets (such as business methods, know-how business developed by the School of Economics, food recipes).

#### **Longer Patent Process**

The process of obtaining a patent tends to take longer time compared to other types of KI. The reason is that there are several processes that must be passed by the applicant, until the patent is issued by the government. Generally, the registration process of patents reaches 72 months (6 years) consisting of the application, announcement, substantive examination, and issuance of patent certificate.

The first stage, the application takes about 18 months up to the announcement process (related to the fulfillment of administrative requirements of the registered patents). The second stage, namely the announcement, it takes around 6 months for the announcement of the invention and then waiting period if there are any objections from other parties towards the patent has been registered. If no objections, the

## INTELLECTUAL PROPERTY

next request is for substantive examination from the inventor. So, in total, it will take approximately 18 additional months to enter into substantive examination process.

The next stage is the subexamination carstantive ried out within a period of 36 months. At this stage, the directorate of KI will ascertain whether the registered invention has met the requirements to be granted a patent or not. If considered to meet the requirements, it will be included in the process of granting a patent certificate. But if not (denied), it takes about nine months to get into the Patent Appeal Commission for further proceedings.

The last stage is a patent certificate granting for inventions that have served their substantive examination. Although the process is long, the invention that is still under the registration process is allowed to be published if the applica-

tion of the registered invention has a registration number and date of receipt.

Another reason that makes the patent process longer is because the elements of a patent involve technology in which the components are only known by the inventor. Thus, Directorate General of KI needs to get very detailed information on the components contained in an invention which will be registered, by involving a comparison. Patent registration could not be proceeded if there is an objection or appeal in the registration process, and if there is also a similar technology that has been registered previously.

The process is time-consuming and has various levels of difficulty. Therefore, an inventor should do a search first before registering a patent, whether the technology has already been registered or not. Patent searches can be done through several pages.





Especially at Telkom University (Tel-U), eight patents have already been registered in which two of them fall into the category of the Grant of Directorate General of National Higher Education. The obstacles of patent registration process at Tel-U still faced by IPR Clinic are associated with the patent drafting processing.

In addition to registration forms and other administrative documents (ID cards, personal statements, letters of transfer of rights, etc.), registration of a patent application requires the Patent Drafting. It includes abstract, description, and claim of the invention which will be registered, in which only the inventor who knows what kind of invention that will be registered.

Furthermore, during the Patent Drafting, there are

certain criteria used as reference. One of them is that the used language phrase should not be promotional (advertising).

Currently, there are several KIs at Tel-U in which the application process is still suspended because the patent drafting has not been attached or the use of the language does not meet the criteria. In the future, it is expected that Tel-U IPR Clinic can assist to create the Patent Drafting to facilitate the potential inventors at Tel-U to protect the invention that has been generated.

The easier and the more understandable, the faster the patent of IPR Clinic process can be filed, so as to motivate potential inventors to continue working. •

Author: Tel-U IPR Clinic Staff.

#### Page to Search for Patent:

- 1. E-Status dari Ditjen KI (http://e-statushki.dgip.go.id)
- 2. EPO (http://worldwide.espacenet.com/advancedSearch?locale=en EP)
- 3. USPTO (http://patft.uspto.gov/netahtml/PTO/search-bool.html)
- 4. JPO (http://www.jpo.go.jp).
- 5. Google (http://www.google.com/patents)

# INTELLECTUAL PROPERTY LIST

SCHOOL OF COMPUTING- 2015

Creator / Designer / Inventor / Brand Creator

Maman Abdurohman
Intellectual Property Title

Buku Perancangan Embedded System Berbasis FPGA

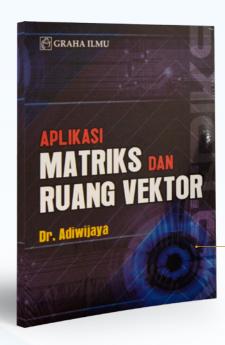
Intellectual Property Kind

**Copy Right** 

Certificate No.: 072561







Creator / Designer / Inventor / Brand Creator

**Adiwijaya** 

Intellectual Property Title

Buku Aplikasi Matriks dan Ruang Vektor Intellectual Property Kind

Copy Right

Certificate No: 072560

Creator / Designer / Inventor / Brand Creator

Maman Abdurohman

Intellectual Property Title

Buku Pemrograman Bahasa Assembly : Konsep Dasar dan Implementasinya

Intellectual Property Kind

Copy Right

Certificate No: 072562



Creator/ Designer / Inventor /
Brand Creator
Ryan Shindu
Amanda Diani
Rasti K
Maulana H
Dicka M
Ahmad Hari K
Intellectual Property Title
Film Dokumenter "Kabayan
Chicago"
Intellectual Property Kind
Copy Right
Certificate No.
073942

Creator/ Designer / Inventor /
Brand Creator
Nadya Laras Ayu
Intellectual Property Title
Film Dokumenter "Di Balik
Kilang"
Intellectual Property Kind
Copy Right
Certificate No.
074509

Creator/ Designer / Inventor /
Brand Creator
Retno Wulan
Intellectual Property Title
Program Komedi Televisi
"Kayaknya Berita"
Intellectual Property Kind
Copy Right
Certificate No.
074511

# INTELLECTUAL PROPERTY

SCHOOL OF ECONOMICS & BUSINESS - 2015

Creator / Designer / Inventor / Brand
Creator
Yudi Priyadi
Intellectual Property Title
Buku Kolaborasi Sql & Erd Dalam
Implementasi Database
Intellectual property Kind
Copy Right
Certificate No.
072746

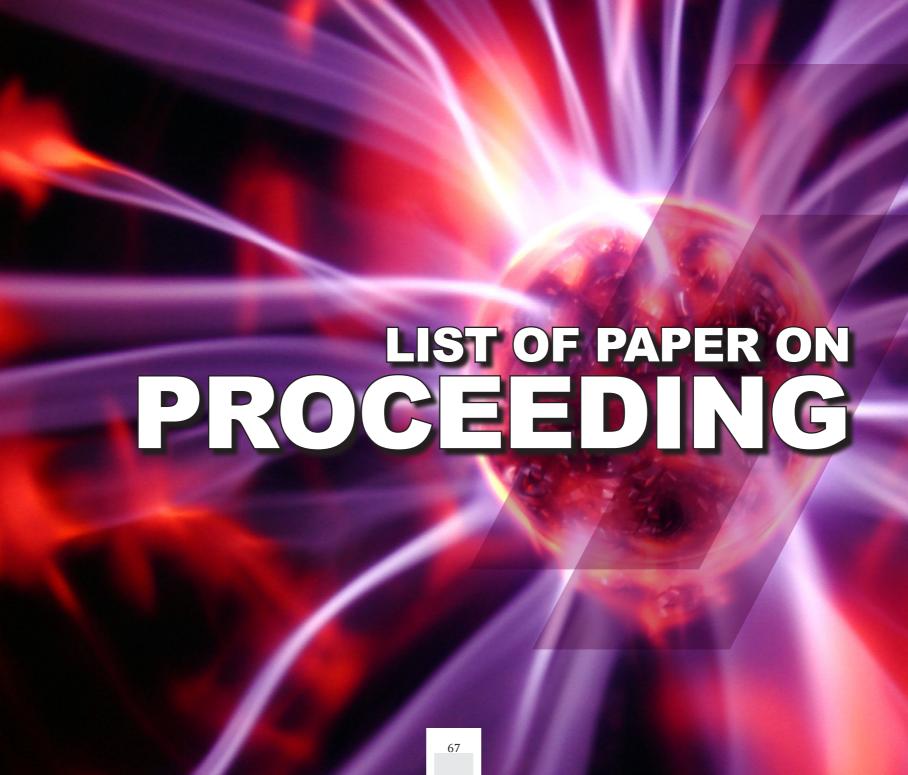




# INTELLECTUAL PROPERTY

SCHOOL OF APPLIED SCIENCE - 2015

Creator / Designer / Inventor / Brand
Creator
Rahmat Hidayat, S.E., M.M.
Agus Maolana Hidayat, S.T., M.T.
Nellyaningsih, Dra., M.M.
Intellectual Property Title
Jurnal Ilmiah berjudul "The
Role's of Service Quality
Dimension and Perceived
Values for Increasing
Customer Loyalty"
Intellectual property Kind
Copy Right
Certificate No.
075667



#### SCHOOL OF ELECTRICAL ENGINEERING

- A Multicarrier Modulation Audio Watermarking System
- Author

  Gelar Budiman
- Conference
  The 5th International
  Conference on Electrical
  Engineering and Informatics
  2015
- A Preliminary Design and Testing of The On Board Data Handling (OBDH) for Nano-Satellite Using an Atmospheric Balloon
- Author
   Heroe Wijanto
   Budi Syihabuddin
   Agus Dwi Prasetyo
   Yusuf Pradana Gautama
   Ivan Khrisnagaluh
   Mardiansyah
- Conference
  The 1st International
  Conference on Wireless and
  Telematics (ICWT-2015)
- A Study of Square Loop Resonator Filter at 2350 MHz for Nanosatellite Application
- Author
   Muhammad Purwa Manggala
   Heroe Wijanto
   Budi Syihabuddin
- Conference
  The 1st International
  Conference on Wireless and
  Telematics (ICWT-2015)

- An Efficient Implementation of Sequential Detector in Spectrum Sensing Under Correlated Observations
- Author
   Fiky Yosef Suratman
   Sigit Puspito Wigati Jarot
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Analysis of Camera Array On Board Data Handling using FPGA for Nano-Satellite Application
- Author
   Whildan Pakartipangi
   Denny Darlis
   Budi Syihabuddin
   Heroe Wijanto
   Agus Dwi Prasetyo
- Conference
  The International Conference
  on Telecommunication
  Systems Services and
  Applications (TSSA)
- Autonomous Knowledgebased System for Sensor Network
- Author

  Nyoman Bogi Aditya Karna
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Bandwidth Improvement of Square Patch Array-based AMC Using Multiple Slots Technique

- AuthorLevy Olivia NurConferenceThe 3rd International
- The 3rd International Conference on Information and Communication Technology (ICoICT) 2015
- Beef Freshness
   Classification By Using
   Color Analysis, Multi-Wavelet
   Transformation, and Artificial
   Neural Network
- Author
   Danika Trientin
   Bambang Hidayat
   Prof. Dr. Ir. Sjafril Daranasu
- Conference
  The 2015 International
  Conference on Automation,
  Cognitive Science, Optics,
  Micro-Electro-Mechanical
  System, and Information
  Technology
- Cluster Head Rotation:
   A Proposed Method for Energy Efficiency in D2D Communication
- Author
   Bhaskara Narottama
   Arfianto Fahmi
   Budi Syihabuddin
   Amanda Julia Isa
- Conference
   2015 IEEE International
   Conference on
   Communication, Networks
   and Satellite (COMNETSAT)
- Coexistence LTE with GSM and UMTS - Performance Analysis using SEAMCAT Simulation

- Author
   Raden Aryani Rosalina
   Rendy Munadi
   Arfianto Fahmi
- ConferenceCOMNETSAT
- Correction of Radiation
   Pattern Measurement In
   Non-Anechoic Chamber
   At Frequency Range of 2
   To 3 GHz Using FFT-Based
   Method
- Author
   Meta Herawati Haliem
   Heroe Wijanto
   Bambang Setia Nugroho
- Conference
  The 14th International
  Conference on Quality in
  Research 2015
- DC Motor- Reaction Wheel Control Design Using Linear Quadratic Controller
- Author
   Nur Nubli Muhamad
   Erwin Susanto
   Budi Syihabuddin,lg.
   Prasetya Dwi Wibawa
- Conference
  International Conference on
  Engineering and Technology
  for Sustainable Development
  (ICET4SD) 2015
- DDoS Detection Using Modified K-Means Clustering with Chain Initialization Over Landmark Window
- Author
   Made Indra Wira Pramana
   Yudha Purwanto
   Fiky Yosef Suratman

- Conference
  2015 International
  Conference on Control,
  Electronics, Renewable
  Energy and Communications
  (ICCEREC), Bandung,
  Indonesia
- Design and Implementation of Regulatory Systems of Light, Temperature and Humidity Indoor Gardens Using Microcontroller
- Author

  Ariando

  Rita Purnamasari
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Design and Implementation of RFID Line-Follower Robot System with Color Detection Capability using Fuzzy Logic
- AuthorM. B. NugrahaDenny Darlis
- Conference ICCEREC 2015, Bandung, Indonesia
- Design and Simulation of LTE Radio System for Broadband Wireless Access in Central Phnom Penh
- AuthorSiren SevenRina Pudji AstutiBudi Prasetya

- Conference
   2015 IEEE Asia Pacific
   Conference on Wireless and Mobile, Bandung, The Trans Luxury
- Design and Simulation of Maximum Power Point Tracking (MPPT) System on Solar Module System Using Constant Voltage (CV) Method
- Author
   Sevty Satria Bhatara
   Reza Fauzi Iskandar
   M Ramdlan Kirom
- Conference
   Padjadjaran International
   Physics Symposium 2015,
   Jatinangor Indonesia
- Design of Bidirectional Converter Using Fuzzy
   Logic Controller to Optimize Battery Performance in Electric Vehicle
- AuthorKharisma Bani AdamMochamad Ashari
- Conference
  International Seminar on
  Intelligent Technology and Its
  Applications 2015
- Design of Temperature
   Control Based Fuzzy Logic
   for Substrate in Thermophilic
   Hydrogen Reactor
- AuthorBella PratiwiM Ramdlan KiromReza Fauzi Iskandar

- Conference
  ICCEREC 2015, Hotel Trans
  Luxury Bandung
- Designing Secured Data Using a Combination of LZW Compression, RSA Encryption, and DCT Steganography
- Author

  Ledya Novamizanti

  Gelar Budiman

  Iwan Iwut Tritoasmoro
- Conference
  The 1st International
  Conference on Wireless and
  Telematics (ICWT-2015)
- Determining Lung Sound Characterization Using Hjorth Descriptor
- AuthorAchmad Rizal
- Conference
  International Conference
  on Control, Electronics,
  Renewable Energy, and
  Communications 2015
  (ICCEREC 2015), Bandung
- Distributed FFR as the Novelty Solution of the Integration Femtocell and Microcell in Cellular Network
- Author
   Nur Yusuf
   Rina Pudji Astuti
   Arfianto Fahmi
   Gelar Budiman

- Conference
  IEEE Asia Pacific Conference
  on Wireless and Mobile
  (APIWimob 2015), Bandung.
- Enabling Multipath Routing for Unicast Traffic in Ethernet Network
- Author Sofia Naning Hertiana
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom
- Enhancing Performance of Block Diagnalization Precoding in Multi User MIMO (MU-MIMO) Downlink
- AuthorRina Pudji AstutiBambang Setia Nugroho
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua Bali Indonesia
- Estimation of Sound Source Direction in Various Temperatures
- Irma Safitri

Author

■ Conference
2014 2nd International
Conference on Technology,
Informatics, Management,
Engineering & Environment
(TIME-E 2014)

#### SCHOOL OF ELECTRICAL ENGINEERING

- Experimental Study of Thermal Efficiency on Plate-Fin Solar Thermal Collector
- AuthorTri Ayodha AjiwigunaTesla Pinantun Hamonangan
- Conference
  International Conference
  on Mechanical Engineering
  (ICOME) 2015, Hotel Patra
  Jasa Bali
- Impact of Number of Device And Data Rate Variation
   In Clustering Method
   On Device-To-Device
   Communication
- Author
   Bhaskara Narottama
   Arfianto Fahmi
   Budi Syihabuddin
- Conference
  IEEE Asia Pacific Conference
  On Wireless And Mobile,
  Trans Luxury Hotel, Bandung
- Implementing Thermoelectric Generator on CPU
- Author
   Nuzul Hesty Pranita
   Kiki Azura
   Abrar
   Tri Ayodha Ajiwiguna
- Conference
  ICCEREC(IEEE International
  Conference on Control,
  Electronics, Renewable
  Energy, and
  Communications, Bandung

- Improved Junction
  Temperature Measurement
  for High Power LED by
  Forward Voltage Method
- Author
  Tri Ayodha Ajiwiguna
- Conference
   International Conference on
   Mechanical Engineering,
   Bali, Indonesia
- Integration of Autonomous Sender for Hidden Log Data on Kleptoware for Supporting Physical Penetration Testing
- Author
   Surya Michrandi Nasution
   Yudha Purwanto
   Agus Virgono
- Conference ICWT 2015
- Knowledge Representation for Image Feature Extraction
- AuthorNyoman Bogi Aditya Karna
- Conference
  International Conference on
  Soft Computing, Intelligent
  System and Information
  Technology, Bali Dynasty
  Resort, Kuta, Bali
- LinkSPath: A Novel Hybrid Restoration Scheme in High Speed Optical Networks
- AuthorSatria UtamaErna Sri SugestiIstikmal

- Conference
  IEEE International
  Conference on Control,
  Electronics, Renewable
  Energy and Communications
  (ICCEREC 2015), Bandung,
  Indonesia
- Modified Kleptodata for Spying Soft-Input Keystroke and Location Based on Android Mobile Device
- Author
   Surya Michrandi Nasution
   Yudha Purwanto
   Agus Virgono
   M. Faris Ruriawan
- Conference
  International Conference on
  Information Technology
  Systems and Innovation 2015
- Multiple Testing Procedure Based on Energy Detector for Multiband Spectrum Sensing in Cognitive Radio
- Author
   Fiky Yosef Suratman
   Gelar Budiman
   Iswahyudi Hidayat
- Conference
  Asia Pacific Conference on
  Wireless and Mobile
  (ApiWimob 2015), Bandung
- Multiscale Hjorth
   Descriptor for Lung Sound
   Classification
- Author
  Achmad Rizal
- Conference International Conference on Science and Technology 2015

- Novel Cryptography Using Horse Step Algorithm For More Flexible Key
- Author
   Nawayoga Nurwahju Muh
   J.HR.
   Bambang Hidayat
   Iwan Iwut Tritoasmoro
- Conference
  IEEE Asia Pacific Conference
  on Wireless and Mobile
  (APiWimob 2015), Bandung,
  Indonesia
- PAPR Reduction by Data Subcarriers and Null Subcarriers Switching
- AuthorSugihartonoDharu Arseno
- Conference
  International Conference on
  Wireless and Telematics
  (ICWT 2015)
- Performance Analysis of Routing and Congestion Control Cooperation in Wireless Mobile Ad Hoc Networks
- AuthorIstikmal
- Conference
  International Conference
  on Control, Electronics,
  Renewable Energy, and
  Communications 2015
  (ICCEREC 2015), Bandung

- Performance Analysis of Routing and Congestion Control Cooperation in Wireless Mobile Ad Hoc Networks
- AuthorIstikmalAdit Kurniawan Hendrawan
- Conference
  International Conference
  on Control, Electronics,
  Renewable Energy, and
  Communications 2015
  (ICCEREC 2015)
- Performance and Fairness
   Analysis (using Jains Index) of AODV and DSDV based on ACO in MANETs
- Author
  Aris Hartaman
  Basuki Rahmat
  Istikmal
- Conference
   4th International Conference
   On Interactive Digital Media
   2015
- Planning Analysis About The 900 Mhz And 1800 Mhz Lte Network On Rural Area
- Author
   Uke Kurniawan Usman
   Tody Ariefianto Wibowo
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Denpasar

- Planning Analysis About The Performance of Wi-Fi 802.11n Based Backhaul For Lte Network On Rural Area
- Author
   Ari Sadewa Yogapratama
   Uke Kurniawan Usman
   Tody Ariefianto Wibowo
- Conference
  The 14th International
  Conference in Quality in
  Research, Mataram
- Planning LTE-Advanced
   Using Carrier Aggregation
   Intra-Band Non-Contiguous
   and Inter-Band Non-Contiguous Methode
- Author
   Dharma Winata Saputra
   Uke Kurniawan Usman
   Linda Meylani
- Conference
  IEEE Asia Pacific Conference
  on Wireless and Mobile 2015,
  Bandung
- Polygon WebGIS of Distric Level for Development and Monitoring of PUSKESMAS in Health Care Services
- AuthorIstikmalTody Ariefianto WibowoLeanna Vidya Yovita
- Conference
  International Conference on
  Wireless and Telematics
  (ICWT-2015)

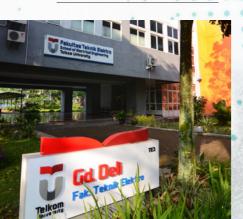
- Quality of Service Improvement with 802.11e EDCA Scheme Using Enhanced Adaptive Contention Window Algorithm
- Author Susan Prasetya Basuki Rahmat Erwin Susanto
- Conference
  4th IEEE COMNETSAT 2015
- Simulation and Analysis of Energy Consumption For SMAC and TMAC Protocols on Wireless Sensor Network
- Author
   Rendy Munadi
   Andini Eksi Sulistyo
   Feblia Ulfah Fauzi Sobandi
   Tjahjo Adiprabowo R.
- ConferenceAPWIMOB, Bandung-Indonesia
- Statistical Analysis on Aggregate and Flow Based Traffic Features Distribution
- Author
   Yudha Purwanto
   Kuspriyanto Hendrawan
   Budi Rahardjo
- Conference International Conference on Wireless and Telematics (ICWT), 2015
- Thin EM Wave Absorber
   Composed of Octagonal Patch
   Array and Its Characteristic
   Measurement

- Author

  Levy Olivia Nur
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Throughput Performance of Routing Protocols Based on SNR in Wireless Mobile Ad Hoc Networks
- AuthorIstikmalAdit KurniawanHendrawan
- Conference
  International Conference on
  Wireless and Telematics
  (ICWT-2015)
- Time Based Anomaly
  Detection Using Residual
  Polynomial Fitting on
  Aggregate Traffic Statistic
- Author
   Yudha Purwanto
   Kuspriyanto Hendrawan
   Budi Rahardjo
- Conference
  International Conference on
  Wireless and Telematics
  (ICWT), 2015

#### SCHOOL OF ELECTRICAL ENGINEERING

- Use of Clustering Concept for Chunk Forming based on Constellation Signals on OFDMA Resource Allocation Systems
- Author
   Budi Prasetya
   Dr. Adit Kurniawan
   Arfianto Fahmi
   Dr. Iskandar
- Conference
  The 9th International
  Conference on
  Telecommunication Systems
  Services and Applications
  (TSSA 2015)
- Vein Tracking Using 880nm Near Infrared and CMOS Sensor with Maximum Curvature Points Segmentation
- AuthorAnggunmeka Luhur Prasasti
- Conference q7th WACBE World Congress on Bioengineering



# SCHOOL OF INDUSTRIAL ENGINEERING

- A Maintenance Task
   Optimization of the BTS
   Using RCM and LCC Methods
- Author Rd. Rohmat Saedudin
- Conference
   2015 International
   Conference on Industrial
   Internet of Things
- A Sliding Window Technique for Covariance Matrix to Detect Anomalies on Stream Traffic
- Author

  Trinita S.P.

  Yudha Purwanto

  Tito Waluyo Purboyo
- Conference ICCEREC 2015, Bandung
- DDoS Detection Using CURE Clustering Algorithm with Outlier Removal Clustering for Handling Outliers
- Author
  Muhammad Agung Tri
  Laksono
  Yudha Purwanto
  Astri Novianty
- Conference
  IEEE International
  Conference on Control,
  Electronics, Renewable
  Energy, and Communication
  (ICCEREC) 2015, Bandung,
  Indonesia

- Designing an Integrated
   Core Banking System for A
   Medium-Scale Sharia Bank in Indonesia
- Author

  Ari Yanuar Ridwan
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Telkom University Bali
  Indonesia
- End-User Acceptance of E-Government Services in an Indonesia Regency
- AuthorDeden WitarsyahConference
- IAES EECSI 2015, Palembang Indonesia
- Ergonomic Tool Design Tea Transport Process at PT Perkebunan Nusantara VIII
- AuthorMira Rahayu
- Conference
   2nd International Conference
   on Emerging Trend in
   Academic Research (ETAR-2015).
- Evaluating the Effective Location of Product Advertising on Facebook Ads
- Author
   Aulia Fashanah Hadining
   Atya Nur Aisha
   Dimas Kurniantoro Aji

#### ■ Conference

Proceedings of the 2016 International Conference on Industrial Engineering and Operations Management Kuala Lumpur, Malaysia, March 8-10, 2016

- Face Recognition Based on the Android Device Using LBP Algorithm
- Author
   Qawlan Akariman
   Agung Nugroho Jati
   Astri Novianty
- Conference ICCEREC 2015, Trans Luxury Hotel, Bandung
- Implementation of Host Card Emulation Mode Over Android Smartphone as Alternative ISO 14443A for Arduino NFC Shield
- Author
   Rochman Saefulloh Basyari
   Surya Michrandi Nasution
   Burhanuddin Dirgantoro
- Conference
  IEEE International
  Conference On Control,
  Electronics, Renewable
  Energy and Communication,
  Bandung
- Implementation of Real Value Genetic Algorithm To Determine Three PID Parameter
- Author
   Mochamad Yusuf Abdul Aziz
   Agung Nugroho Jati
   Unang Sunarya

- Conference ICCEREC 2015, Trans Luxury Hotel, Bandung
- Instruments Measurement Design of Human Behavior in Collaborative Software Construction
- Author
  Tien Fabrianti Kusumasari
- Conference
  The 2015 International
  Conference on Advanced
  Informatics: Concepts,
  Theory and Application
  (ICAICTA2015), The Tide
  Resort, Bang Saen Beach,
  Chonburi. Thailand
- Knowledge Management
   System with Geographic
   Information System Use
   5C4C Method in Telkom
   University Marketing Division
- Author
   Angga Hidayah Ramadhan
   Luciana Andrawina
   Muhammad Azani Hasibuan
- Conference International Conference on Knowledge Management
- LCC Application for Estimating Total Maintenance Crews and Optimal Age of BTS Component
- Author
   Judi Alhilman
   Rd. Rohmat Saedudin
   Fransiskus Tatas Dwi Atmaji
- Conference
  The 3rd International
  Conference on Information
  and Communication

- Technology (ICOICT) 2015, Telkom University, Bali, Indonesia
- Monitoring and Controlling of EMS-SCADA via SMS Gateway
- Author Rino Andias A. Tatang Mulyana
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Telkom University Bandung
- Pressurize Simulator
- AuthorTatang MulyanaDeden WitarsyahAndri Gautama Suryabrata
- Conference
  IAES EECSI 2015,
  Palembang, Indonesia
- Rabbit Algorithm for Video on Demand
- Author
   Fikaril Akhyar
   Surya Michrandi Nasution
   Tito Waluyo Purboyo
- Conference
  APWiMob 2015, Bandung
- Sosemanuk Algorithm for Encryption and Decryption Video on Demand (VoD)
- Author
  Siska Selany
  Surya Michrandi Nasution
  Tito Waluyo Purboyo

- Conference APWiMob 2015, Bandung
- System Analysis of ARX and ARMAX Models of Shell and Tube Heat Exchanger QAD BDT 921
- Author Tatang Mulyana Haris Rachmat Rino Andias A.
- Conference
   2015 International
   Conference on Industrial
   Internet of Things
- Tilt and Heading
  Measurement Using Sensor
  Fusion From Inertial
  Measurement Unit
- AuthorYosi SahrezaAgung Nugroho JatiUnang Sunarya
- Conference ICCEREC 2015, Trans Luxury Hotel, Bandung

- Website Design of EMS-SCADA for AC Usage on a Building
- AuthorHaris RachmatTatang Mulyana
- Conference ICO ICT
- Wireless Fire Alarm System in Power Plant
- Author
   Andri Gautama Suryabrata
   Tatang Mulyana
   Deden Witarsvah
- Conference
  International Conference
  on Electrical Engineering,
  Computer Science and
  Informatics 2015 (EECSI
  2015), Palembang



#### SCHOOL OF COMPUTING

- (EDSHEED) Enhanced
   Simplified Hybrid, Energy Efficient, Distributed
   Clustering for Wireless
   Sensor Network
- AuthorSidik PrabowoMaman AbdurohmanBayu Erfianto
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Telkom University, Bali
  Indonesia
- A Performance Comparison of OpenMTC Platform
- AuthorVera SuryaniSelo Sulistyowidyawan
- Conference ICST 2015
- A Photo Composite Detection Based on Eye Specular Highlight Using Pixel-based Approach
- Author
   Rimba Whidiana Ciptasari
   Bambang Pudjoatmodjo
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali, Indonesia (Universitas
  Telkom-Bandung, Indonesia)

- An Automatic Health
  Surveillance Chart
  Interpretation System Based
  on Indonesian Language
- Author
   Indra Aulia
   Ari Moesriami Barmawi
   Conference
- Analysis and Implementation
- of Graph Indexing for Graph Database Using GraphGrep Algorithm
- Author
   Emir Septian Sori Dongoran
   Kemas Rahmat Saleh Wiharja
   Alfian Akbar Gozali
- Conference
   The 3rd International
   Conference on Information and Communication
   Technology (ICoICT) 2015
- Analysis and Implementation of Tracking Efficient Method to LQ45 Stock Index Portfolio Optimization
- Author
   Ayunda Firsty Trisnowianti
   Deni Saepudin
   Rian Febrian Umbara
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Analysis and Implementation Scale Invariant Feature Transform (SIFT) for Authentication System Using Palm Vein

- Author
   Tjokorda Agung Budi
   Wirayuda
   Siti Saadah S.T.
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bali
  Indonesia
- Analysis of Liveline Addition as The New Time Constraint and The Earliest Deadline Earliest Liveline First (EDELF) Algorithm in Real Time System
- AuthorFazmah Arif YuliantoEndro Ariyanto,
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua, Bali
- Application of M2M Detect
   The Air Pollution
- Author
   Putut Andre Luqman Besari
   Maman Abdurohman
   Andrian Rakhmatsyah
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bali
  Indonesia

- Artificial Fish Swarm
   Algorithm for Job Shop
   Scheduling Problem
- AuthorAgung Toto WibowoMahmud Dwi Sulistiyo
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom, Bandung
  Indonesia Bali Nusa Dua
  Convention Center, Bali
  Indonesia
- Aspect Extraction in Customer Reviews Using Syntactic Pattern
- Author Warih Maharani Masayu Leylia Khodra
- Conference ICCSCI, Bina Nusantara Jakarta
- Cascading Failure Tolerance in Large-Scale Service Network
- Author Kemas Muslim Lhaksmana
- Conference
   2015 IEEE International
   Conference on Services
   Computing, SCC 2015
- Chaos and Complex in Measuring Sustainability of Economic Condition in Indonesia
- Author Siti Saadah S.T

- Conference
   2nd ICISS 2015 International
   Conference on Information
   Science and Security 2015
- Cluster-Smoothed with Random Neighbor Selection for Collaborative Filtering
- Author
   Aulia Rahmawati
   Agung Toto Wibowo
   Gia Septiana Wulandari
- Conference
  The 2015 International
  Conference on Computer,
  Control, Informatics and its
  Applications (IC3INA 2015),
  Aston Tropicana Hotel,
  Bandung
- Collaborative Social Network Analysis and Content-based Approach to Improve The Marketing Strategy of SMEs in Indonesia
- Author
   Warih Maharani
   Alfian Akbar Gozali
- Conference ICCSCI, Bina Nusantara Jakarta
- Combining Learner's
   Preference and Similar Peers
   Experience in Adaptive
   Learning
- AuthorDade Nurjanah
- Conference
  International Conference
  on Computer Science for
  Education, INSTICC Lisbon,
  Portugal

- Comparative Analysis of Voice Over Internet Protocol (VoIP) Quality on Priority Queue (PQ) and Class-Based Queue (CBQ) Management System Using Link-Sharing Mechanism Setting
- Author

  Dodi Wisaksono Sudiharto

  Fazmah Arif Yulianto
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua, Bali
- Comparative Study of Grammatical Evolution and Adaptive Neuro-Fuzzy Inference System on Rainfall Forecasting in Bandung
- AuthorFhira Nhitaadiwijaya
- Conference
   The 3rd International
   Conference on Information and Communication
   Technology (ICOICT) 2015,
   Bali
- Comparative Study of Moving Average on Rainfall Time Series Data for Rainfall Forecasting Based on Evolving Neural Network Classifier
- Author
   Fhira Nhita
   Deni Saepudin
   Adiwijaya
   Untari Novia Wisesty

- Conference
  3rd International Symposium
  on Computational and
  Business Intelligence (ISCBI
  2015)
- Degree Centrality for Social
   Network with Opsahl Method
- Author

  Yoga Yustiawan

  Warih Maharani

  Alfian Akbar Gozali
- Conference
  ICCSCI, Bina Nusantara
  Jakarta
- Design and Implementation of Secure Fingerprint
   Template Using Key Binding Scheme and Random
   Triangle Hashing Scheme
- Author Erwid Musthofa Jadied
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Telkom University Bali
  Indonesia
- Design and Implementation of Voice Command Using MFCC and HMMs Method
- Author
   Tjokorda Agung Budi
   Wirayuda
   Siti Saadah S.T.

The 3rd International
Conference on Information
and Communication
Technology (ICOICT) 2015

■ Conference

- Technology (ICOICT) 2015, Universitas Telkom - Bali Indonesia
- Detection of Factors that Influence Student Failure Rate using Exhaustive CHAID (Chi - Square Automatic Interaction Detection)
- AuthorMira Kania SabariahVeronikha Effendy
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Telkom University Bali
  Indonesia
- Detection of Ovarian
   Follicle for Polycystic Ovary
   Syndrome in Ultrasound
   Images of Ovaries
- Author
   Bedy Purnama
   Adiwijaya
   Untari Novia Wisesty
   Fhira Nhita
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua Bali

## SCHOOL OF COMPUTING

- Development of Word Based Text Compression Algorithm for Indonesian Language Document
- Author
   Ardiles Sinaga
   Hertog Nugroho, Ir., Mt., Ph.D
   Adiwijaya
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Differential Evolution for the Cryptanalysis of Transposition Cipher
- AuthorGia Septiana WulandariSiti Sa'adah
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology, Bali Nusa Dua
  Convention Center
- Dimensionality Reduction for Association Rule Mining with IST-EFP Algorithm
- Author
   Boby Siswanto
   Prof. The Houw Liong
   Shaufiah
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua Bali

- Evaluation of Academic Website Using ISO 9126
- Author
   Dawam Dwi Jatmiko Suwawi
   Eko Darwiyanto
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua, Bali
- Evaluation of the Online Assessment Test using Process Mining (Case Study: Intensive English Center)
- AuthorAngelina Prima KurniatiYanuar Firdaus Arie Wibowo
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali, Indonesia
- Feature Extraction Analysis on Indonesian Speech Recognition System
- AuthorUntari Novia WisestyAdiwijaya
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali
- Forest Fire Detection
  Reliability Test Using
  Wireless Sensor Network and
  OpenMTC Communication
  Platform

- Author
   Anton Herutomo
   Maman Abdurohman
   Novian Anggis Suwastika
   Sidik Prabowo
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali Nusa Dua Convention
  Center, Nusa Dua, Bali,
  Indonesia
- Fractional Fourier Transform for Decreasing Seismic
   Data Lossy Compression
   Distortion
- Author
  Hilal Hudan Nuha
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali Nusa Dua Convention
  Center, Bali, Indonesia
- Genetic Algorithm for Capacitated Vehicle Routing Problem with Considering Traffic Density
- Author
   Rasyid Kurniawan
   Mahmud Dwi Sulistiyo
   Gia Septiana Wulandari
- Conference
  International Conference
  on Information Technology
  Systems and Innovation
  (ICITSI) 2015

- Godunov Method for Computerized Lung Cancer Cryosurgery Planning with Efficient Freezing Time
- Author

  Dede Tarwidi
- Conference
   The 3rd International
   Conference of Information and Communication
   Technology
- Godunov Method for Multiprobe Cryosurgery Simulation with Complex-Shaped Tumors
- AuthorDede Tarwidi
- Conference
  The 7th SEAMS-UGM 2015
  International Conference
  on Mathematics and Its
  Applications, Universitas
  Gadjah Mada Yogyakarta,
  Indonesia
- Gold Price Prediction using Type-2 Neuro-Fuzzy Modeling and ARIMA
- AuthorChintya ChristinaRian Febrian Umbara
- Conference
  International Conference of
  Information and
  Communication Technology
- Implementation
   Classification and
   Regression Tree (CART) and
   Fuzzy Logic Algorithm for
   Intrusion Detection System

- Author Erwin Budi Setiawan
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali Nusa Dua Convention
  Center, Bali, Indonesia
- Implementation Kretschmer
  Complex Degree Centrality
  and Confidence Interval
  Estimation for Validating
  User Reports on Integrated
  Disaster Portal Application
  and Social Media Application
- AuthorDodi Wisaksono Sudiharto
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua, Bali
- Implementation of GRAC Algorithm (Graph Algorithm Clustering) in Graph Database Compression
- Author
   I Gusti Bagus Ady Sutrisna
   Kemas Rahmat Saleh Wiharja
   Alfian Akbar Gozali
- Conference ICOICT 2015, Bali
- Interconnection Learning between Economic Indicators in Indonesia Optimized by Genetic Algorithm
- AuthorSiti Sa'adahGia Septiana Wulandari

- Conference
   6th International Conference
   On Information Science And Applications, Holiday in Pattaya, Thailand
- Learning-based Aspect Identification in Customer Review Products
- AuthorWarih MaharaniMasayu Leylia Khodra
- Conference ICEEI, Bali Indonesia
- List Steganography Based on Syllable Patterns
- Author

  David Martin

  Ari Moesriami Barmawi
- Conference
  ICEEI 2015: International
  Conference on Electrical
  Engineering and Informatics,
  Legian, Bali
- Mobile OCR Using Centroid to Boundary and Backpropagation Neural Network
- Author
   Tjokorda Agung Budi
   Wirayuda
   Kurniawan Nur Ramadhani
   Febryanti Sthevanie
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bandung Indonesia

- Modeling and Numerical Simulation of Solar Cooker with PCM as Thermal Energy Storage
- AuthorDede Tarwidi
- Conference
  The 3rd International
  Conference of Information
  and Communication
  Technology, Telkom
  University Bali Indonesia
- Modularizing RESTful
   Web Service Management with Aspect Oriented
   Programming
- Author

  Bayu Munajat
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Telkom University, Bali
  Indonesia
- Multiclass Fruit Classification of RGB-D Images using Color and Texture Feature
- Author
  Ema Rachmawati
  Masayu Leylia Khodra
- Conference
   International Conference on
   Soft Computing, Intelligent
   System and Information
   Technology (ICSIIT), Bali,
   Indonesia
- Naive Random Neighbor Selection For Memory Based Collaborative Filtering

- Author
  Agung Toto Wibowo
  Aulia Rahmawati
- Conference
  International Seminar on
  Intelligent Technology and Its
  Applications (ISITIA) 2015
- Odometer Readings
  Prototype for Early Warning
  The Replacement Vehicle
  Lubricants Based on
  Microcontroller
- Author
   Asdi Galvani
   Andrian Rakhmatsyah
   Giva Andriana Mutiara
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bali
  Indonesia
- Palm Vein Recognition
  Based-on Minutiae Feature
  and Feature Matching
- Author Tjokorda Agung Budi Wirayuda
- Conference
  International Conference
  on Electrical Engineering
  and Informatics School of
  Electrical Engineering and
  Informatics 2015

## SCHOOL OF COMPUTING

- Performance Improvement of Palm Vein Identity
   Recognition Using Adaptive Filtering and Retinex Method
- AuthorTjokorda Agung BudiWirayuda
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bali
  Indonesia
- Preliminary Study for Determining BYOD Implementation Framework Based on Organizational Culture Analysis Enhanced by Cloud Management Control
- Author
   Nungki Selviandro
   Gede Agung Ary Wisudiawan
   Shinta Yulia Puspitasari
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali
- Pricing Bermudan option via Evolutionary Discrete Morse Flow Approach
- Author Irma Palupi

- The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
- Processing Group Reverse kNN in Spatial Databases
- Author Kiki Maulana

Bali

- Conference
  IEEE 29th International
  Conference on Advanced
  Information Networking and
  Applications (AINA), 2015,
  Gwangju, Korea
- Quantum Feedback
   Network under Darboux
   Transformations
- AuthorAgung Trisetyarso
- Conference
  The first Asilomar Workshop
  for Quantum Repeaters and
  Networks, Asilomar,
  California
- Realistic Facial Animation on Speech Synchronization for Indonesian Language
- AuthorMellia LiyanthiHertog NugrohoWarih Maharani
- Conference
   The 3rd International
   Conference on Information and Communication
   Technology (ICoICT) 2015

- Recommender System
   Based on User Functional
   Requirements Using
   Euclidean Fuzzy
- AuthorZ K Abdurahman BaizalAdiwijaya
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali Nusa Dua Convention
  Center, Bali, Indonesia- TSoc
  Telkom University BandungIndonesia
- Redefining E-Learning Readiness Model
- Author
   Yanuar Firdaus Arie Wibowo
   Kusuma Ayu Laksitowening
- Conference
   The 3rd International
   Conference on Information
   and Communication
   Technology (ICOICT) 2015,
   Telkom University Bandung
- SAE : Syntactic-based Aspect and Opinion Extraction from Product Reviews
- Author Warih Maharani Masayu Leylia Khodra
- Conference
  ICAICTA 2015, The Tide
  Resort, Bang Saen Beach,
  Chonburi, Thailand

- Sentiment Analysis
   on Twitter Using the
   Combination of Lexicon Based and Support Vector
   Machine for Assessing the
   Performance of a Television
   Program
- AuthorMira Kania SabariahVeronikha Effendy
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua Bali
- Speaker Recognition Implementation for Authentication Using Filtered MFCCVQ and a Thresholding Method
- Author
   Tjokorda Agung Budi
   Wirayuda
   Siti Saadah S.T..
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bali
  Indonesia
- Structural Similarity Analyze of Business Process Model using Selective Reduce based on Petri Net
- Author

  Dana Sulistyo Kusumo

- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Telkom University, Bali
  Indonesia
- Text Data Compression for Mobile Phone Using Burrows-Wheeler Transformation, Move-To-Front Code and Arithmetic Coding
- Author
   Eko Darwiyanto
   Heru Anugrah Pratama
   Gia Septiana Wulandari
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua Bali
- The Detection of DDOS Flooding Attack using Hybrid Analysis in IPv6 Networks
- Author

  Gandeva Bayu

  Rizqi Lutfia Chandra
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bali
  Indonesia

- The Implementation User Experience Model in Applications Early Childhood Education Using Hierarchical Task Analysis Method (Case Study: Introduction Learning to Read)
- Author
   Mira Kania Sabariah
   Veronikha Effendy
   Avian Rinandhi
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua Bali
- The Utilization of Ubiquitous Learning on the Cloud-Based open learning to support Indonesia Open Educational Resources (I-OER)
- Author
  Nungki Selviandro
  Gede Agung Ary Wisudiawan
  Shinta Yulia Puspitasari
- Conference International Conference on Advanced Communications Technology
- Using Least square Monte Carlo simulation to price American multi underlying stock option
- Author Irma Palupi Rian Febrian Umbara

- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali
- Vomma: Android Application Launcher Using Voice Command
- Author
   Tjokorda Agung Budi
   Wirayuda
   Siti Saadah S.T.
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom Bali

- Watermarking QR Code
- Author

  Ari Moesriami Barmawi

  Fazmah Arif Yulianto
- Conference
  International Conference on
  Information Science and
  Security
- Watermarking Scheme for Authenticity and Integrity Control of Digital Medical Image using Reed-Muller Codes and Hash Block Chaining
- AuthorDwi Suryani PrathiwiWidi AstutiAdiwijaya
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015



# SCHOOL OF ECONOMICS & BUSINESS

- Identification of Customer Values in Telecommunication Service Industry: A Case of Postpaid Cellular Customers in Indonesia
- AuthorHusni AmaniDini Turipanam Alamanda
- Conference
  The 3rd International
  Conference on Information and
  Communication Technology
  (ICOICT) 2015, Bali
- An Analysis of
  Telecommunication Vendor
  Company Bankruptcy
  Potency Based On the
  Problematic Financial Ratio
  with Altman, Springate and
  Zmijewski Methods
- Author
- Conference International Conference In Organizational Innovation
- An Evaluation of Authentication Methods for Smartphone Based on Users Preferences
- Author
   Puspita Kencana Sari
   Gati Sabrina Ratnasari
   Adhi Prasetio

- Conference
   International Conference on
   Innovation in Engineering
   and Vocational Education
- Analysis of IPTV Adoption In Indonesia Using Modified Unified Theory of Acceptance and Use of Technology 2 Model
- Author
   Intan Kurnia Imastuti
   Maya Ariyanti
   Conference
   The IRES-18th International
   Conference on Science,
   Technology and Management
   (ICSTM)
- Analyzing Traffic Source Impact on Returning Visitors Ratio in Information Provider Website
- Author
   Adhi Prasetio
   Puspita Kencana Sari
   Osa Omar Sharif
   Endang Sofyan
- Conference ICIEVE
- Business Model Analysis of Tokopedia
- AuthorRizka Yura ReginaFarah Alfanur
- Conference
   2015 International Symposium on Social Sciences, Arts and Humanities (SYSSARM), Kuta
   Central Park Hotel, Bali, Indonesia

- Conflict Resolution Analysis
  Using Graph Model For
  Conflict Resolution (GMCR)
  Approach (A Case Study In
  Conflict and Cooperation
  Agreement Between IDT and
  IDMT)
- Author
   Dini Turipanam Alamanda
   Chintya Faradita Putri
   Grisna Anggadwita
- Conference
  The 7th Indonesia
  International Conference on
  Innovation, Entrepreneurship,
  and Small Business (IICIES
  2015), Bandung
- Factors Influence Internet Banking Acceptance (A Case Study of ABC Internet Banking in Bandung Indonesia)
- Author IndrawatiSatria Rahmat Mukti Adicipta
- Conference
   4th International Conference
   on Technology Management
   Business and Entrepreneur
- Graph Sampling Approach for Reducing Computational Complexity of Large-Scale Social Network
- AuthorAndry AlamsyahYahya Paranginangin
- Conference
  International Conference on
  Mathematics: Pure, Applied
  and Computation

- Identification of Customer Values in Telecommunication Service Industry a Case of Postpaid Cellular Customers in Indonesia
- AuthorHusni AmaniDini Turipanam AlamandaGrisna Anggadwita
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Indonesian Music Fans
   Group Identification using
   Social Network Analysis in
   Kaskus Forum
- Author Andry Alamsyah Marisa W. Paryasto
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali Nusa Dua Convention
  Center, Bali, Indonesia
- Network Market Analysis using Large Scale Social Network Conversation of Indonesia Fast Food Industry
- AuthorAndry AlamsyahYahya Paranginangin
- Conference
  The 3rd International
  Conference on Information and
  Communication Technology
  (ICOICT) 2015, Bali



- Predicting Instant Messenger Application Adoption Using a Unified Theory of Acceptance and Use of Technology 2
- Author Indrawati
- Conference
  Proceedings of the 5th
  International Conference on
  Computing and Informatics,
  ICOCI 2015
- Pro-Social Behavior Analysis through Online Social Marketing with Three-Dimensional Credibility Model
- AuthorGliseria Jeannika SiautaIndrawati
- Conference
  3rd International Seminar &
  Conference on Learning
  Organization
- Social Engagement Analysis in Online Conversation of Indonesia Higher Education Case Study: Telkom University
- AuthorAndry Alamsyah
- Conference
   The 3rd International

   Conference of Information and Communication Technology,
   Telkom University Bali Nusa
   Dua Convention Center, Bali,
   Indonesia.

- Study of iPhone Malang
   Community Interaction Using
   Social Network Analysis
- Author
   Dini Turipanam Alamanda
   Adhi Prasetio
   Osa Omar Sharif
   Cut Irna Setiawati
- Conference
  The 9th International
  Workshop on Agent-based
  Approach in Economic and
  Social Complex Systems,
  Bali, Indonesia
- The Effect of Transformative IT Capability on Sustainable Competitive Advantage
- Author

  Teguh Widodo

  Conference
- The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Denpasar
- The Use of Modified Theory of Acceptance and Use of Technology 2 to Predict Prospective Users
- AuthorKusumoaji Sri HaryotoIndrawati
- Conference
  International Conference on
  Computing and Informatics
  (ICOCI 2015), Campus of
  Istanbul Sabahattin Zaim
  University, Istanbul, Turkey

## SCHOOL OF COMMUNICATIONS & BUSINESS

- Conceptual Model of Citizen's Intention Associated to E-Government and Internet Behavior (Why Do Bandung Citizens Follow the Mayor's Social Media?)
- AuthorCut Irna SetiawatiPutri Meuthia Pratiwi Ms
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Fakultas Informatika,
  Universitas Telkom, di Bali
  Nusa Dua Convention and
  Centre Bali-Indonesia



- Knowledge Sharing and Its Enabling Factors Implementation
- AuthorAde Irma Susanty
- Conference International conference on Performance excellent
- New Generation of Film Promotion In Digital Era (Correlational Studies on Online Media Promotion Youtube Toward Audience Decision to Watching Movies in Bandung (Movie Trailer The Raid 2: Berandal Cases
- AuthorIdola Perdini Putri
- Conference
   International Seminar and
   Conference on Learning
   Organization
- **■** Organization
- AuthorAstadi Pangarso
- Jurnal TIME-E 2014, Bandung
- The Effect of Financial Incentives on Funding Account Officer
- Author
   Astadi Pangarso
   Fransiska Putri Wulansari
   Cut Irna Setiawati
- Conference
  The 7th IICIES 2015

## SCHOOL OF APPLIED SCIENCE

- An Implementation of Digital Advertising Board Using Mini PC
- Author
   Denny Darlis
   Tengku Ahmad Riza
   Didit Aditya Permadi
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Nusa Dua, Bali
- An Overview and Implementation of Extraction-Transformation-Loading (ETL) Process In Data Warehouse (Case Study: Department of Agriculture)
- Author Rahmadi Wijayas.Si.Mt Bambang Pudjoatmodjo
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Bali Nusa Dua Convention
  Center, Bali, Indonesia
- Analysis of Complex-Valued Neural Network for Gender Recognition based on Face Image

- AuthorMahmud Dwi SulistiyoRetno Novi Dayawati
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICOICT) 2015,
  Universitas Telkom, Bandung
  Indonesia Bali Nusa Dua
  Convention Center, Bali
  Indonesia
- Arrhythmia Detection Based on ECG Signal Using Android Mobile for Athlete and Patient
- Author
   Sugondo Hadiyoso
   Koredianto Usman
   Achmad Rizal
- Conference
  The 3rd International
  Conference on Information
  and Communication
  Technology (ICoICT) 2015
- Artificial Immune Wireless Intelligent Sensor and Actuator Network (WISAN) for More Electrical Aircraft Performance Monitoring System ( study case : 80 Passenger Aircraft)
- AuthorNina Hendrarini
- Conference International Conference on Wireless and Telematics

- Comparison Performance Analysis of OWDM and OFDM System on Multipath Fading Rayleigh Channel
- Author
   Yuyun Siti Rohmah
   Achmad Ali Muayyadi
   Rina Pudji Astuti
- Conference
  The 9th International
  Conference on
  Telecommunication Systems
  Services and Applications
  (TSSA 2015)
- Design of Camera Array Interface Using FPGA for Nanosatellite Remote Sensing Payload
- Author
  Whildan Pakartipangi
  Budi Syihabuddin
- Conference ICRAMET 2015, Bandung
- Vocational Higher
  Education Governance
  Recommendation Based
  on Cobit 5 Enabler Generic
  Model
- Author Heru Nugroho
- Conference
  The 2015 Recent
  Advancement in Informatics,
  Electrical and Electronics
  Engineering International
  Conference (RAIEIC2015)
- Open Data Strategy for Enhancing the Productivity and Competitiveness of Fishery SMEs in Indonesia

- Author
  Inne Gartina
  Saiful Akbar
- Conference
  International Conference of
  Electrical Engineering and
  Informatics 2015 (ICEEI 2015)
- Security Analysis of RGB Image Encryption Based on Modified Baker Map for Nanosatellite Application
- Author
  Alfian Subiyakto
  Nur Andini
- Conference
  ICRAMET 2015, Bandung

- Sensor Comparation for Smart Parking System
- Author
   Giva Andriana Mutiara
   Anak Agung Gde Agung
   Rini Handayani
- Conference
  The 1st International
  Conference on Wireless and
  Telematics (ICWT-2015)
- The Detection of 8 Type
  Malware bonnet using
  Hybrid Malware Analysis in
  Executable File Windows
  Operating Systems
- Author
   Gandeva Bayu
   Niken Dwi Wahyu Cahyani
   Ritchie Fergindo Andreta

- Conference
  The 17th International
  Conference on Electronic
  Commerce 2015 (ICEC 2015)
- UNEXAR Mini AUV Design and Measurement
- Author
  Faidhon Nur
  Agung Nugroho Jati
  Unang Sunarya
- Conference
  International Conference
  on Control, Electronics,
  Renewable Energy, and
  Communication, The Trans
  Luxury Hotel, Jl. Gatot
  Subroto 289 Bandung
  Indonesia

