

RESEARCH ACTIVITY

- Grid-Internet Platform Development Services for Improved Understanding of Islam (2016)
- Harm Reduction investigation by the Coastal Mangroves through Numerical Modeling (2016)
- Stain-based Optimal Algorithm for Solving Scheduling Problem f on Structure Any Graf Follicles Automatic Detection Application Development to Support Detection Based PCOS Ultrasound Image
- Pronunciation Letter Recognition System Hijaiyah Marked Read (2015)
- Prediction System Development Based Cropping Period Calendar Android Based Results for Weather Prediction (Case Study: Soreang, Bandung District)
- Detection of PCOS on Medical Image Ultra Sonography (USG) to Identify Female Fertility (2014)
- Social Network Analysis for Social Media Marketing in Helping SMEs (Small and Medium)
- Graf Characterization Results of Operations Based on Index Optimization f- Kromatiknya to Support Time Computing (2014)
- Software for Design of System on Chip (SoC) Auto-Based Hardware / Software Codesign Forecasting System Based on Results Calendar Period Planting Weather Forecasting Using Evolutionary Neural Network (2013)
- Weather Forecasting Application System Based on Open Source (2012)
- System Application Owners and Detection To Ensure Authenticity of Digital Medical Images Using Multiple Watermarking Techniques (2011)

PUBLICATION

- Graph Coloring Based on Evolutionary Algorithms to Support Data Hiding Scheme on Medical Images - Procedia Computer Science, Elsevier. (2016)
- Implementation of Local Regression Smoothing on Fuzzy EAs for Planting Season Calendar Forecasting Based on Rainfall (Case Study Rice Plants) - The 4th International Conference on Information and Communication Technology. (2016)
- Planting Calendar of Potato Plants based on Rainfall Forecasting Using Double Moving Average on Fuzzy EAs - The 2016 International Conference on Data , Internet & Education Technologies (The DIET 2016).
- A Classification of Polycystic Ovary Syndrome based on Ultrasound Images using Supervised Learning and Particle Swarm Optimization - The 2016 International Conference on Data, Internet & Education Technologies (The DIET 2016)
- The Recognition of Hijaiyah Letter Pronunciation using MEL Frequency Cepstral Coefficients and Hidden Markov Model - The 2016 International Conference on Data, Internet & Education Technologies (The DIET 2016)
- Compound Critiquing for Conversational Recommender System Based on Functional Requirement (2016)
- An Implementation of Local Regression Smoothing on Evolving Fuzzy Algorithm for Planting Calendar Forecasting based on Rainfall - The 2016 International Conference on Data, Internet & Education Technologies (The DIET 2016)
- Digital Medical Image Compression Algorithm Using Adaptive Huffman Coding and Graph Based (2016)
- Quantization Based on IWT-SVD - The Second International Conference on Soft Computing and Data Mining (SCDM-2016)
- Modified Backpropagation Algorithm for Polycystic Ovary Syndrome Detection Based on Ultrasound Images - ICoICT 2016
- The Implementation of Neighbor Embedding on Greyscale Image Colorization - The Second International Conference on Soft Computing and Data Mining - The Second International Conference on Soft Computing and Data Mining. (2016)
- Implementation of Moving Average and Soft Computing Algorithm to Support Planting Season Calendar Forecasting System on Mobile Device - ICoICT 2016
- Handling Imbalanced Data in Churn Prediction Using RUS Boost and Feature Selection (Case Study: PT. Telekomunikasi Indonesia Regional 7) - The Second International Conference on Soft Computing and Data Mining (SCDM-2016)
- Computing The Metric Dimension of Hypercube Graphs by Particle Swarm Optimization Algorithms - The Second International Conference on Soft Computing and Data Mining (SCDM-2016)
- Planting Calendar Forecasting System using Evolving Neural Network - Far East Journal of Electronics and

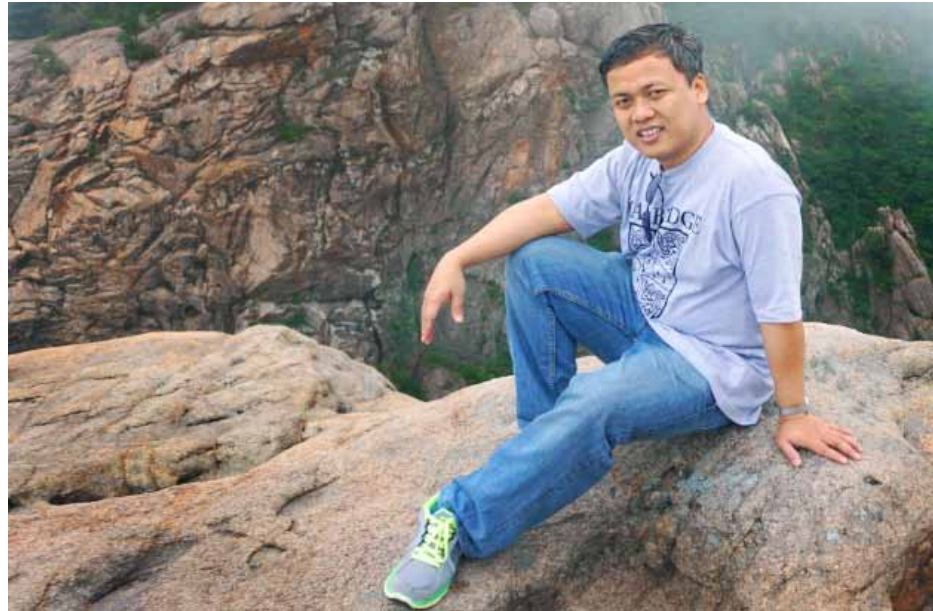
Dr. Adiwijaya

Communications. (2015)

- Comparative Study of Grammatical Evolution and Adaptive Neuro-Fuzzy Inference System on Rainfall Forecasting in Bandung - IColCT 2015
- Follicle Detection on the USG Images to Support Determination Polycystic Ovary Syndrome - The 3rd International Conference of Information and Communication Technology 2015 - Sciotech 2015
- Recommender System Based on User Functional Requirements Using Euclidean Fuzzy - IColCT 2015
- Feature Extraction Analysis on Indonesian Speech Recognition System - IColCT 2015
- Detection of Ovarian Follicle for Polycystic Ovary Syndrome in Ultrasound Images of Ovaries - IColCT 2015
- Particle Swarm Optimization on Follicles Segmentation to Support PCOS Detection - IColCT 2015

INTELLECTUAL PROPERTY

- Book "Matrix and Vector Space Application", IDCert "072560" (2015)
- Application "Qronis (Iqro Animation)", IDCert "077869" (2016)



ADIWIJAYA was born in Majalengka, September 21, 1974. He has expertise in the field of combinatorial optimization on image, data mining, and data science.

His undergraduate, graduate,

RESEARCH FIELD

- Coding Techniques, Graph Algorithms, Discrete Mathematics, Linear Algebra, Modeling and Optimization, Information Theory, and Applications of Matrix and Vector Space.

ACHIEVEMENT

- The most Productive Lecturer in Scopus Indexed Publication (2015)
- The most Productive Lecturer in Publication (2013)
- The Best Lecturer (Runner Up) in West Java and Banten (2012)

and postgraduate education was taken from the Bandung Institute of Technology (ITB), respectively in 1999, 2004 and 2012. He studied mathematics with a couple of professional training.

in Tel-U, he teaches coding techniques, graph algorithms, discrete mathematics, linear algebra, modeling and optimization, information theory, and applications of matrix and vector space.

He has conducted various studies in accordance with his competence. His scientific papers was published in various scientific journals. Therefore, he was appointed as the lecturer with the most publications of Telkom Education Foundation (YPT) in 2013 and the lecturer with the most indexed publications by Scopus (Tel-U, 2015). ♦

Ir. Ari Moesriami Barmawi, MSc. Ph.D



ARI Moesriami Barmawi was born in Chicago, March 15, 1960. She teaches Cryptography, Information Hiding, Introduction to Computer Science, Research Methodology, Application of Science and Technology Concepts, Advanced Cryptography and cryptanalysis.

Ari graduated from the electrical engineering of Bandung Institute of Technology (ITB, 1985). She continued her graduate and postgraduate program at Keio University, Japan (1997 and 2001). The field that she learned in Japan was computer science.

Over the past five years, Ari has been done many scientific studies, similarly, the publication of scientific works published in the *Jurnal Telekomunikasi* and *International Journal on Telecommunications and ICT Research and Application*. She also often gave papers in scientific seminars at home and abroad.

With the full scientific spirit, in 2014, Ari obtaining a patent, entitled "Method for inserting and re-read the electronic data to and from the quick response code with codeword modification" under registration number P0020146257. ♦

RESEARCH FIELD

■ Cryptography & Steganography.

RESEARCH ACTIVITY

- Overcoming weakness Id Authentication Schemes Based on Smart Card (2016)
- Securing Multimedia Content (2014)
- Insertion Extraction Feature Fingerprint on QR Code (2013)
- Study of Information Retrieval to Build Indications Plagiarism Detection System (2013)

INTELLECTUAL PROPERTY

- Patent - "The methods for inserting and re-read the electronic data to and from the Quick Response Code by modifying the Code Word", IDReg "P00201406257", 2014

PUBLICATION

- Denying Collision in The Second Round of Keccak Hash Function by Camouflaging Free Bits – ICoICT. (2016)
- Modified Graphstega Based on Chart Scale Modification - European Intelligence and Security Informatics Conference (EISIC) 2016
- Linguistic Based Steganography using Lexical Substitution and Syntactical Transformation - International Conference on IT Convergence and Security 2016
- List Steganography Based on Syllable Patterns - ICEEI 2015: International Conference on Electrical Engineering and Informatics
- Strengthening Crypto-1 Cipher against Algebraic Attack - Journal of ICT Research and Applications. (2015)
- Watermarking QR code - International Conference on Information Science and Security. (2015)
- Improving Bio-Cryptography Authentication Protocol - TSSA 2015
- An Automatic Health Surveillance Chart Interpretation System Based on Indonesian Language - ICAC SIS 2015

EXPERTISE EXPERIENCE

- E-Learning Content Development for Training and Consulting on Indigrow Child Development Centre - Indigrow Child Development Center (2016)
- The Guest Speaker at Genolinguistik for Network Security and Encryption – ITB (2015)
- Jury for Essay Contest Information Security - Sekolah Tinggi Sandi Negara (2014)
- Guest speaker at the Indonesian Information Security Forum - DEPKOMINFO (2012)

Dade Nurjanah, Ph.D

DADE was born in Bandung, January 18, 1973, her research interests are adaptive learning, user modeling, computer-supported cooperative work/learning, Collective Intelligence, Socio-informatics.

Her research interest are related to her informatics and computer science education. in 1996 and 2002, she graduated from undergraduate and graduate informatics program of Bandung Institute of Technology (ITB). Then, in 2013, she passed the postgraduate program at the University of Southampton, UK, in the field of computer science.

in Tel-U, Dade served as the Director of Postgraduate program since 2014. Previously, among other things, she served as chairman of the committee on the research field of the senate of Faculty of Engineering (2013-2014) and Interest Group Head (KK) of Intelligence, Computing and Multimedia (ICM) (2013-2014).

Being the Socio-Informatics Coordinator in the Association of Information and Computer College of West Java Province (since 2013), she wrote many papers and being a reviewer in international scientific journals. Not surprisingly, in 2010, Dade won the title as "The excellence award of doctoral mobility program in European Universities (Stellar, Europe) and in 2014 she was awarded the title as the best lecturer of Tel-U. ♦

RESEARCH ACTIVITY

- Expansion Method Performance Factor Analysis (PFA) to Predict the Group's Knowledge on Collaborative Learning (2016)
- Computer-Supported Supported Collaborative Work for Authoring Learning Designs (2008-2015)
- Adaptive Learning Authoring Tools (2007)
- Liquid Publication (2007)
- Intelligent Automatic Counsellor (2001-2003)

ACHIEVEMENT

- Best Lecturer – 2014 – Telkom University
- The Excellence Award of Doctoral Mobility Program in European Universities- 2010 - STELLAR, Europe

PUBLICATION

- Similar and Good Learners' Recommendation in Adaptive Learning Systems - International Conference on Computer-Supported Education (CSEDU) 2016
- Adaptive Navigation with Knowledge Tracing Method - ICoICT 2016
- Combining Learner Preference and Similar Peers Experience in Adaptive Learning - International Conference on Computer Science for Education (2015)
- *Sistem Informasi Posyandu dengan SMS Gateway Menggunakan Metode Ontology dalam Menjawab Pertanyaan* (IHC Information Systems with SMS Gateway Method Using Ontology in Answering Questions) – Logic (2015)
- Authoring Learning Designs: The Expressiveness of IMS LD and Collaboration Supports - IEEE Global Engineering Education Conference (EDUCON 2014)
- The Granularity of Collaborative Work for Creating Adaptive Learning Resources - The 6th International Conference on Computer Supported Education (CSEDU), (2014)
- Improving the Workspace Awareness of Authors in Asynchronous Collaborative Authoring of Learning Designs - ED MEDIA conference, (2012)
- Collaborative Authoring of Adaptive Learning Resources: Opportunities and Challenges - CollaborateCom conference 2011
- Extending Authoring for Adaptive Learning to a Collaborative Authoring - Human Computer Interaction International Conference
- A Framework of Collaborative Adaptation Authoring - CollaborateCom Conference (2010)
- A Computer Support Collaborative Authoring Model for Authoring Adaptive Educational Hypermedia Systems - Web Science Conference
- Collaborative Authoring for Adaptive Educational Hypermedia by Enriching Semantic Wiki's Output- User Modelling and Personalization Conference 2009



RESEARCH FIELD

- Adaptive Learning, User Modeling, CSCW, Social Computing.

DANA was born in Wonosobo, February 11th, 1978. His research interest revolve around Software Engineering, Process Aware Information Systems, Strategic Information System Planning, Object Oriented Analysis and Design, Software Engineering Project Management, Algorithm, Operating System, Network Programming, Object Oriented Model, and Relational Database Design.

His higher education related to

informatics and computer. He passed both of the undergraduate and graduate program from ITB (1996, 2004). As for his doctoral program, he took Computer Science and Engineering at the University of New South Wales, Australia (2013).

The winner of NICTA Research Project Award (NRPA), 2009-2013 from National ICT Australia (NICTA), he serves as the head of the Informatics Master (since April 2014).

Previously he had served as the Interest Group Head of Software Information and Data Engineering (SIDE) of IT Telkom (2007-2009).

on various occasions, Dana often involved as a speaker of scientific papers both held at home and abroad. and in 2014, he became a reviewer of papers at the IEEE 2014 2nd International Conference on Information and Communication Technology. ♦

RESEARCH ACTIVITY

- Proposed Interaction Design Patterns Drawing Tools Drawing on Application for Early Childhood Education in Indonesia (2016)
- Adoption Requirements Engineering Technique in Optimizing the User Acceptance Test FITNESS based Framework to Improve Precision Software Requirements (2015)
- Application of Graph DB Database Schema Library Indexing in Tel-U (2014)

ACHIEVEMENT

- The NICTA Research Project Award (NRPA), 2009-2013 - National ICT Australia (NICTA)
- Best Paper in National Conference on Information Systems (KNSI) 2007 - National Conference on Information Systems (KNSI)

PUBLICATION

- High Quality of Service Video Conferencing over IMS - ICIET 2015: 3rd International Conference on Information and Education Technology (2015)
- Understanding Differences in Process Perspectives between Developers and Acquires in Off-the-Shelf-Based Custom Software Projects Undertaken in Indonesia - The 19th International Conference on Evaluation and Assessment in Software Engineering (EASE 2015)
- Modularizing RESTful Web Service Management with Aspect Oriented Programming - IColCT 2015
- (EDsHEED) Enhanced Simplified Hybrid, Energy- Efficient, Distributed Clustering for Wireless Sensor Network - IColCT 2015
- Particle Swarm Optimization on Follicles Segmentation to Support PCOS Detection - IColCT 2015

PUBLICATION

- Development of Word Based Text Compression Algorithm for Indonesian Language Document - IColCT 2015
- Framework for Process Interactions between Acquisition and Development of Off-The-Shelf-based Custom Software, - Konferensi Nasional Informatika (2013)
- Integration of Security Aspects Into Software Engineering - Journal of Computer Science 2008
- Analyzing Differences in Risk Perceptions between Developers and Acquires in OTS-based Custom Software Projects Using Stakeholder Analysis - 6th International Symposium on Empirical Software Engineering and Measurement (ESEM 2012),
- Risks of Off-The-Shelf-based Software Acquisition and Development: A Systematic Mapping Study and A Survey - ACIS 2011,



RESEARCH FIELD

- Software Engineering, Process Aware Information Systems, Strategic Information System Planning, Object Oriented Analysis and Design, Software Engineering Project Management, Algorithm, Operating System, Network Programming, Object Oriented Model, and Relational Database Design.

RESEARCH ACTIVITY

- Catching Lobster Sustainable Model in the Gulf of Pelabuhan Ratu Sukabumi (2015) Algorithm Implementation of Soft Computing on Mobile Device for Forecasting Planting Calendar Period (Case Study: Bandung Regency) (2016)
- Prediction System Development Based Cropping Period Calendar Android based results for Weather Prediction (Case Study: Soreang, Bandung District) (2015)
- Alternative Formulation Problems Opt. for Model Support Vector Machine Classifier (2012)
- Automatic Detection of Lung Disease based Voice Signal Lungs (2011)
- The calculation of Dielectric Constant Heterogeneous Systems Approach Two Phase DG Finite Difference Time Domain (2010)

PUBLICATION

- Implementation of Moving Average and Soft Computing Algorithm to Support Planting Season Calendar Forecasting System on Mobile Device - 2016 2nd International Conference on Science in Information Technology (ICSI Tech)
- Analysis and Implementation of Tracking Efficient Method to LQ45 Stock Index Portfolio Optimization – ICOLCT 2015
- Comparative Study of Moving Average on Rainfall Time Series Data for Rainfall Forecasting Based on Evolving Neural Network Classifier - 3rd International Symposiums on Computational and Business Intelligence (ISCBI 2015)
- Klasifikasi Jenis Kelamin Berdasarkan Citra Wajah Menggunakan Algoritma Adaboost-SVM (Classification of Gender Based Facial Image Using Adaboost Algorithm) - National Seminar on Information Technology and Multimedia (2013)
- *Feature Selection untuk Klasifikasi Teks dengan Mekanisme Within Class Popularity (WCP)* (Feature Selection for Text Classification Popularity With Class Within Mechanism (WCP))- SNAKOM 2012
- Optical Character Recognition Using Modified Direction Feature and Nested Multi Layer Perceptions Network - The IEEE International Conference on Computational Intelligence and Cybernetics (CYBERNETICSCOM) (2012)
- Combination Rough Set Theory and Genetics Algorithm for Intrusion Detection System – Jurnal telekomunikasi (2011)
- Oil Production Optimization in a Cluster of Gas Lift Wells System, to appear in Journal of Applied Sciences, Science Alert, 2010
- Optimization of Gas Injection Allocation in a Dual Gas Lift Well System, Journal of Energy Resources Technology, Transaction of the ASME, 2009

Dr. Deni Saepudin, S.Si, M.Si.

BORN in Bandung, July 7, 1975, Deni Saepudin is a lecturer computational sciences with research interest in the field of mathematical modeling, optimization, and Mathematical Finance / Computational Finance.

His higher education are all derived from the mathematics study at the ITB program with graduation year respectively in 1998, 2003 and 2009. Therefore, the courses whom he teaches related to mathematics.

Prior to his appointment as the Head of Computing Science Program of Tel-U since 2014, Deni had served as the Head of the Modeling and Simulation Interest Group of IT Telkom (2010-2014).

He has been involved in various research, written scientific papers, become a reviewer of scientific papers, and as a speaker and moderator at conferences or scientific seminars, for example, he was a speaker at the National Conference of Mathematics KNM 17 in ITS (2014). ♦



RESEARCH FIELD

- Mathematics Modelling, Computational Finance & Optimization.

Didit Adytia, Ph.D



BORN in Tanjung Pandan, Belitung, February 5, 1983, Didit is a lecturer of Computational Science, School of Computing, Telkom University. He graduated his undergraduate program in mathematics from The Department of Mathematics, Faculty of Mathematics and Natural Sciences, ITB (2006). His master degree also was taken from the same department and university (2008). For his doctoral degree, he graduated from Universiteit Twente, Netherlands (2008). ♦

RESEARCH FIELD

- Fluid Dynamics, Water Waves, Bossiness Equations, Variational Method, Finite Element.

RESEARCH ACTIVITY

- Harm Reduction investigation by the Coastal Mangroves through Numerical Modelling (2016)

PUBLICATION

- Simulation of Obliquely Interacting Solitary Waves with a Hard Wall by using HAWASSI-VBM and SWASH Model - Proceedings of The 7th Seams UGM International Conference on Mathematics and Its Applications (2016)
- Numerical Solution for Laplace Equation with Mixed Boundary Condition for Ship Problem in the Sea - The 5th International Conference on Mathematics and Natural Sciences (2015)
- Simulations of Short-Crested Harbour Waves with Variational Bossiness Modelling - The Twenty-Fourth International Ocean and Polar Engineering Conference (2014)
- Embedded Wave Generation for Dispersive Surface Wave Models - Ocean Engineering 80, 73-83 (2014)
- Optimized Variational 1D Business Modelling for Broad-Band Waves Over Flat Bottom - Wave Motion 49 (2), 309-322 (2012)
- Optimized Variational 1D Bossiness Modelling Of Coastal Waves Propagating Over A Slope -Coastal Engineering 64, 139-150 (2012)
- Phase Resolved and Averaged Wave Simulations in Jakarta Harbour - Proceedings 6th Asia-Pacific Workshop on Marine Hydrodynamics-AP Hydro, 218-223 (2012)
- Effect of a Possible Anak Krakatau Explosion in the Jakarta Bay - Brawijaya University (2012)
- The Variational 2D Business Model for Wave Propagation Over a Shoal - The Royal Institution of Naval Architects (2011)
- Variational Bossiness Model for Simulations of Coastal Waves and Tsunamis - Proceedings of the 5th International Conference on Asian Pacific Coasts, 122-128 (2011)
- Tsunami Wave Guiding: Phenomenon and Simulation Above Synthetic Bathymetry and Indonesian Coastal Area - Proceedings of International Conference on Tsunami Warning, 12-14 (2008)
- Tsunami Wave Guiding Simulation Above Synthetic and Realistic Bathymetries - Natural Hazards and Earth System Sciences 8, 175-185 (2008)
- Near-Coast Tsunami Wave Guiding: Phenomenon and Simulations - Natural Hazards and Earth System Sciences 8 (2), 175-185 (2008)

Dr. Irfan Darmawan, S.T., M.T.

Irfan Darmawan was born in Tasikmalaya, August 10, 1975 has research interest which covering Computation, Grid Computing, System Optimazation, Embedded System, Scheduling and Balancing, Distributed Information Processing, Computer Science, Computational Complexity, and Artificial Intelligence.

He graduated from Electro Engineering – Computer System Technique of Institut Teknologi Nasional (ITENAS) Bandung (undergraduate, 1998), Electrical Engineering & Informatics both of ITB (graduate in 2002 and postgraduate in 2013).

Irfan once was appointed as the Head of Computer Centre of Siliwangi University (2002-2006) and Vice Dean I of Technique Faculty of Siliwangi University (2014). Here he teaches, among others, basic electronics, introduction to computer, organization and architecture of computer. ♦

RESEARCH FIELD

- Computation, Grid Computing, System Optimazation, Embedded System, Scheduling and Balancing, Distributed Information Processing, Computer Science, Computational Complexity, and Artificial Intelligence.

RESEARCH ACTIVITY

- Determinants Analysis System Compatibility between Child and Foster Parents To Prevent Violence in Children With Method Classification and Regression Trees (CART). (2016)
- Integration of Genetic Algorithm and Taboo Search for Load Balancing Process to Source Computing (2015)
- Increased Performance Computing Grid Through the Arrangement Dynamic Load Balancing and Scheduling Resource Computing Integration Using Genetic Algorithm and Taboo Search (IGTS) (2014)



PUBLICATION

- *Perancangan Sistem Manajemen Hubungan Pelanggan untuk CV. Perceka Menggunakan Metode Iterative Incremental* (Customer Relationship Management System Design for CV. Perceka Using Incremental Method) - National Seminar on Information Technology (SNATI) (2016)
- *Integration of Self-Adaptation Approach on Requirements Modeling - (SCDM) Advances in Intelligent Systems and Computing* (2016)
- *Optimizing Weights in Elman Recurrent Neural Networks with Wolf Search Algorithm* - International Conference on Soft Computing and Data Mining (2016)
- *A New Search Direction for Broyden Family Method in Solving Unconstrained Optimization Problems* - International Conference on Soft Computing and Data Mining (2016)
- *Training ANFIS using Catfish-Particle Swarm Optimization for Classification* - International Conference on Soft Computing and Data Mining (2016)
- *Variety of Approaches in Self-Adaptation Requirements: A Case Study* - International Conference on Soft Computing and Data Mining, Bandung (2016)
- *Optimalisasi Proses Komputasi Melalui Pengaturan Penyeimbangan Beban Sumber Komputasi dengan Perpaduan Algoritma Genetic dan Tabu Search di Lingkungan Komputasi Grid* (Process Optimization Computing Through Load Balancing Settings Source Computing with the Combination Genetic Algorithm and Tabu Search in Grid Computing Environments)- Seminar Information Engineering and Information Systems Universitas Kristen Maranatha (2013)
- *Grid Computing Process Improvement through Computing Resource Scheduling Using Genetic Algorithm and Taboo Search Integration* - International, Telecommunication Systems, Services, and Application 2012 IEEE (2012)
- *Hibridisasi Genetic-Tabu Search Algorithm untuk Penjadwalan Job Terhadap beberapa Resource di dalam Komputasi Grid* (Hybridization Genetic-Tabu Search Algorithm for Job Scheduling Against some of the Resource in Grid Computing) - National Seminar on Information Technology Application UII (2011)
- *Algoritma Genetic-Tabu Search untuk Menyeimbangkan Beban (Load Balancing) di Lingkungan Komputasi Grid* (Genetic-Tabu Search Algorithm for Load Balancing (Load Balancing) in Grid Computing Environments) - National Conference, UNDIP (2012)
- *Integration of Self-Adaptation Approach on Requirements Modeling* - International Conference on Soft Computing and Data Mining
- *Variety of Approaches in Self-Adaptation Requirements: A Case Study* - International Conference on Soft Computing and Data Mining
- *A New Search Direction for Broyden's Family Method in Solving Unconstrained Optimization Problems* - International Conference on Soft Computing and Data Mining
- *Training ANFIS using Catfish-Particle Swarm Optimization for Classification* - International Conference on Soft Computing and Data Mining
- *Optimizing Weights in Elman Recurrent Neural Networks with Wolf Search Algorithm* - International Conference on Soft Computing and Data Mining

ACHIEVEMENT

- Best Paper Award First Charter in National Seminar "Aplikasi Komputasi Terdistribusi, Kecerdasan Komputasional dan Bioinformatika - Universitas Gajah Mada (2013)"
- Charter Award as Trustees of Indonesian Smart Robot Contest - The Ministry of National Education Directorate General of Higher Education (2012)
- Blood Donors for 25 times- PMI (2012)
- Charter Award as the Trustees of the Intelligent Robot Contest Indonesia Intelligent Robot Division Wheeled Fire Extinguisher on (KRI-KRCI) Region II in 2011 - The Ministry of National Education Directorate General of Higher Education (2011)
- Blood Donors for 10 Times - PMI (2008)

Kemas Muslim Lhaksana, Ph.D

BORN in Bandung, November 23, 1982, Kemas got his Bachelor of Engineering from Informatics Engineering department of Bandung Institute of Technology (ITB) in 2005. and he studied at HAN University, Arnhem, Netherlands, for his Master of Information Systems Development (2009).

Since 2005, he worked as a software engineer for PT. Ihsan Solusi Informatika, Bandung. and during his life in the Netherlands, he was participated in an internship of NESS Benelux B. V. (now USoft B. V.), Baarn, a research project of the implementation of decision table for their software development technology. ♦

RESEARCH ACTIVITY

- Grid-Internet Platform Development Services for Improved Understanding of Islam (2016)
- Algorithms and Parallel Computing using Graphical Processing Unit to Support Cloud Computing (2012)
- Algorithms and Parallel Computing Using a Graphical Processing Unit to Support Cloud Computing (2012 - 2013)
- RIFASKES: Geographic Information System for Research and Development of the Ministry of Health (2012 - 2013)
- Making Geographic Information Systems Facilities / Infrastructure Facility Health Ministry of Health of Indonesia-based Web (2011)

PUBLICATION

- Analysis of Large-Scale Service Network Tolerance to Cascading Failure - IEEE Internet of Things Journal. (2016)
- Role-Based Programming for Implementing Adaptive IoT Applications - The 2016 International Conference on Computer, Control, Informatics and its Applications (IC3INA 2016)
- Cascading Failure Tolerance in Large-Scale Service Network - 2015 IEEE International Conference on Services Computing, SCC(2015)
- Cascading Failure Tolerance in Large Scale Service Network - IEEE International Conference on Services Computing (SCC) (2015)
- Role Modeling for Adaptive Multiagent Systems Engineering - IEEE/WIC/ACM International Joint Conference on Intelligent Agent Technology (IAT) (2013)
- Perkembangan dan Peluang Penerapan Multiagent Systems dalam Sistem Terdistribusi (Development and Application of Multiagent Systems Opportunities in Distributed Systems) - National Seminar on Computational(SNAKOM) (2012)
- Decision Table to Constraints Generation in Rules-Based Application - Konferensi Nasional ICT-M Politeknik Telkom (KNIP) (2011)

RESEARCH FIELD

- Information Systems Development



Kiki Maulana Adinugraha, Ph.D

KIKY born in Bandung, January 20, 1980 with subjects teaching are Basic Data Modeling, Basic Data System, and Spatial Basic Data. He studied Computer Science at Parahyangan University (bachelor, 2002), Information System at Bandung Institute of Technology (master, 2005), and Informatics at Monash University, Australia (doctor, 2015). ♦

RESEARCH FIELD

- Basic Data Modelling, Basic Data System, Spatial Basic Data

PUBLICATION

- RkNN Query with Higher Order Voronoi Diagram- Prosiding Internasional Terindeks Scopus, ICoICT 2016
- Group Reverse kNN Query Optimization - Journal of Computer Science (2015)
- Range - kNN Queries with Privacy Protection in a Mobile - Pervasive and Mobile Computing, Special Issue on Secure Ubiquitous Computing (2015)
- Processing Group Reverse kNN in Spatial Databases - Advanced Information Networking and Applications (AINA), 2015 IEEE 29th International Conference
- Finding Reverse Nearest Neighbours by Region - Concurrency and Computation (2014)
- Peer-to-peer bichromatic reverse nearest neighbors in mobile ad-hoc networks - Journal of Parallel and Distributed Computing (2014)
- Reverse Nearest Neighbor by Region on Mobile Devices - Advanced Information Networking and Applications (AINA), 2014 IEEE 28th International Conference Bichromatic
- Reverse Nearest Neighbors in mobile peer-to-peer networks - Pervasive Computing and Communications (PerCom), 2013 IEEE International Conference



Dr. Maman Abdurohman



MAMAN Abdurohman, was born in Majalengka, March 14, 1975, is interested in Computer System, Computer Network, and Embedded System.

His undergraduate degree of Informatics engineering acquired from STT Telkom in 1998. While his master and doctoral degree from Bandung Institute of Technology (ITB), especially from the School of Electrical engineering and Informatics (STEI) with Special Field of Information Technology (2003) and Electrical Engineering and Information Technology (2010).

Maman ever held some positions in the Tel-U, among others, as the Library Manager (2011), the Head of

Telematics Interested Group (since 2011), and the Head of the Laboratory of Unified Communication (since 2013). Besides, now he serves as the Dean of the Faculty of Informatics, Tel-U.

For supporting the teaching materials, Maman wrote the book entitled *Pemrograman Bahasa Assembly* (2010), *Perancangan Embedded System berbasis FPGA* (2012) and *Organisasi dan Arsitektur Komputer* (2013). in addition, he is active in a variety of research, writing and reviewing scientific papers, as well as speaking in various scientific conferences or seminars. ♦

RESEARCH FIELD

- Computer System, Computer Network, and Embedded System.

INTELLECTUAL PROPERTY

- Patent - Together with UML Design Methodology - S00201604180 (2016)
- Copyright - Picture Architecture Smart Room - C00201602284 (2016)
- Copyright - Picture Asynchronous Distance Education - C00201602281 (2016)
- Copyright - Picture Communication Models of People and Machines - C00201602282 (2016)
- Copyright - Picture Smart Lighting Architecture - C00201602285 (2016)
- Copyright - Picture Distance Education Sinkronous - C00201602283 (2016)
- Copyright - Picture Silo Application - C00201602277 (2016)
- Copyright - Picture Smart Lighting Application - C00201602286 (2016)
- Copyright - Picture Communication at All Times and Places - C00201602278 (2016)
- Copyright - Book FPGA-based Embedded System Design - 072561 (2015)
- Copyright - Book Assembly Language Programming: Basic Concepts and Implementation - 072562 (2015)



RESEARCH ACTIVITY

- Follicles Automatic Detection Application Development to Support PCOS Detection Based on Ultrasound Image. (2016)
- Stain-based Optimal Algorithm for Solving Scheduling Problem f at Graf Random Structures. (2016)
- Software for Design of System on Chip (SoC) Auto-Based Hardware / Software codesign. (2016)
- Data Center for Monitoring Fleet in PT Charoen Pokphand Indonesia-Based Platform. (2016)
- Coloring algorithm f At times Cartesian Some results Graf with Graf Tracks. (2016)
- Event-Driven Design Methodology of Embedded System on Chip-Based Finite State Machine (FSM). (2016)
- Algorithms and Complexity Stain-F on Wheels and Expansion Graf. (2016)
- Graf Characterization Results of Operations Based on Index Optimization f- Kromatiknya to Support Time Computing. (2016)
- MTC Open Development Platform for Smart City Prototype Applied to Smart Building Solution. (2016)
- Building Smart M2M Platform-based Open MTC (2014)
- Data Center for Monitoring Fleet at. Charoen Pokphand Indonesia Open Platform Based MTC (2013)
- Software for Design of System on Chip (SoC) Auto-Based Hardware / Software Codesign. (2013)
- Application Development Broad Band Voice Over Soft Client (2013)
- Modelling Traffic Backhaul for Cloud Applications (2013)
- Voice over Broadband Development based on Open IMS (2013)
- Basic Design Platform Monitoring System for Moving System Based Event Driven Method (2012- 2013)
- Event-Driven Design Methodology of Embedded System on Chip-Based Finite State Machine (FSM). (2011-2012)
- Management Information Systems Stream Video Ads based Distance Wireless Networks (2009)
- Design and Implementation of Automatic Pulse Stock Transfer System Based on GSM Modem (2008)

PUBLICATION

- Improvement Text Compression Performance Using Combination of Burrows Wheeler Transform, Move to Front, and Huffman Coding Methods - International Conference on Science & Engineering in Mathematics, Chemistry and Physics, 2014
- Mobile Tracking System Based on Even Driven Method - International journal of Applied Mechanics and Materials, 2013
- Software for Automated SoC Design Based on Hardware/Software CoDesign Concept - International Conference on Advance in Computing and Information Technology, 2013
- Mobile Tracking System Using Open MTC Platform - 1st IEEE International Conference on Machine to Machine Communications Interfaces and Platforms, 2013
- Securing Elliptic Curve Based El-Gamal Against Pollard Rho Attack Using Elliptic Curve Based Diffie- Hellman Key Exchange - 7th International Conferences for Internet Technology and Secured Transactions (ICITST), 2012
- Automated SoC Framework Generator for Embedded System Design Using Event Driven Method - International Conference on Electrical, Computer, Electronics and Communication Engineering (ICECECE), 2012
- Great Circle Distance Method for Improving Operational Control System Based on GPS Tracking System - International - Journal on Computer Science and Engineering (IJCSE), 2012
- Model Transformation Method of Embedded System Hardware for Improving Design Process Performance - International Journal on Electrical Engineering and Informatics (JEEI), 2011
- Automated Navigation System based on Weapon Target Assignment - Jurnal Telkomnika - Univ. Ahmad Dahlan, 2011
- *Implementasi Penyisipan Pesan pada Citra dengan Metode Steganografi BPCS dan Algoritma Enkripsi AES* (Implementation Insertion Messages in Citra with BPCS Steganography Method and AES Encryption Algorithm) - Jurnal Telekomunikasi (Jurtel), 2011
- *Analisis Performansi VoIP Quality Adaptation Menggunakan SIP Berdasarkan Voice Quality Prediction Model* (Performance Analysis Using the SIP VoIP Quality Adaptation Based Voice Quality Prediction Model) - Jurnal Telekomunikasi (Jurtel), 2011
- The New Embedded System Design Methodology for Improving Design Performance - International Journal of Computer Science & Information Security (IJCIS), 2010

Moch Arif Bijaksana, Ph. D

BORN in Purworejo, September 14, 1965, Moch Arif Bijaksana teaches Text Mining, Semantic Text Relatedness, Web and Text Mining, Informatics Engineering, Concept of Science and Technology. He studied Electrical Engineering at Gajah Mada University (bachelor, 1991), Computer Science at RMIT University (master, 1999), Computer Science at Queensland University of Technology (QUT, doctor, 2015). For the last five years, he conducted several scientific activities such as research, community development, writing and delivering papers. ♦

RESEARCH ACTIVITY

- Text mining and analysis (2014-2015)

PUBLICATION

- The 4th International Conference on Information Technology for Cyber and IT Service Man - Analysis of Combined Features at Semantic Argument Classification, Bandung 2016
- The 4th International Conference on Information and Technology - Semantic Argument Classification Using Word/POS in Constituent and Left Argument Features, Bandung 2016
- The 4th International Conference on Information and Technology - Comprehensive Comparison of Term Weighting Method for Classification in Indonesian Corpus, Bandung 2016
- The 2th International Conference on Soft Computing and Data Mining - WordNet Gloss for Semantic Concept Relatedness (accepted), Bandung 2016
- Relevance Feature Discovery for Text Mining - IEEE Transactions on Knowledge and Data Engineering, 2015
- Relevance Feature Discovery for Text Mining.- IEEE Transactions on Knowledge and Data Engineering, 2015
- Scoring - Thresholding Pattern Based Text Classifier - The 5th Asian Conference on Intelligent Information and Database Systems (ACIIDS) Kuala Lumpur, 2013
- A Pattern Based Two-Stage Text Classifier - The 9th International Conference on Machine Learning and Data Mining in Pattern Recognition (MLDM) New York, 2013



RESEARCH FIELD

- Text Mining and Analysis.

PUBLICATION

- Scientific Parallel Computing for 1D Heat Diffusion Problem Based on Open MP - ICoICT 2016 (The 4th International Conference on Information and Communication Technology) 2016
- Simulation of Wave Mitigation by Coastal Vegetation Using Smoothed Particle Hydrodynamics Method - Journal of Physics: Conference Series/2015 International Conference on Mathematics, its Applications, and Mathematics Education (ICMAME 2015)
- *Simulasi Irian Kendaraan Seragam dalam Satu Jalur* (Simulation accompaniment Uniforms Vehicles in single Line) - IndoSC 2015
- Staggered Scheme for the Exner – Shallow Water Equations,- Computational Geosciences, Springer, 2015
- Numerical Simulation of Tsunami Hazard by Mangrove Forest in North Coast Bali, Indonesia. - Jurnal Matematika UNUD, 2015
- Hydrostatic Relaxation Scheme for the 1D Shallow Water – Exner Equations in Bedload Transport, Computers & Fluids, Elsevier, 2015
- *Aproksimasi Non-Uniform Spasial Persamaan Panas 1D dengan Finite Pointset Method* (Non-Uniform approximation Spatial 1D Heat Equation with Finite Method Pointset)- Indonesia Symposium on Computing 2015
- An Explicit Staggered Finite Volume Scheme for the Shallow Water Equations. in: Finite Volumes for Complex Applications VII-Methods and Theoretical Aspects, - Springer, 2014
- Numerical Study of Staggered Scheme for Viscous Saint-Venant Equations. - Applied Mathematical Sciences, 2014

Dr. Putu Harry Gunawan, S.Si., M.Si., M.Sc.

PUTU Gunawan Harry was born in Singaraja, Bali, June 9, 1986 with research interest in the field of Numerical methods for ordinary and partial differential equations and their applications, Modelling and Simulation in CFD, Parallel Scientific Computing, and Computational Mathematics.

Putu graduated from the Mathematics Department of Udayana University (2009). Then, he earned double master degree of Mathematical and Physical Sciences Department, Kanazawa University, Japan (2011) and Bandung Institute of Technology (ITB) (2011). Similarly to the doctoral program, Putu earned

two doctorates from Le Laboratoire d'Analyse et de Mathématiques Appliquées (LAMA), Université Paris-Est (UPEM), France, and the ITB in 2015.

A medal-winning - Mahar Schutzenberger Prix - Le prix from the Association Franco - Indonésienne pour le Développement des Sciences, France (2014), he has published many scientific papers both in national and international scientific journals. ♦

RESEARCH FIELD

- Fluid Dynamics, Conservation of Laws, Sedimentation, Finite Volume Method.

ACHIEVEMENT

- A medal - Prix Mahar Schutzenberger – Le prix Mahar Schutzenberger is a Reward for Young Indonesian Researchers Who Prepared Their Thesis in France - Association Franco- Indonésienne pour le Développement des Sciences, FRANCE, 2014



PUBLICATION

- Single Authentication: Exposing Weighted Average Splining Artifacts - SPIE Commercial + Scientific Sensing and Imaging 2016
- Digital Image Authentication Based on Second-Order Statistics - ICoICT 2016 - The 4th International Conference on Information and Communication Technology
- A Photo Composite Detection Based on Eye Specular Highlight Using Pixel-based Approach- The 3rd International Conference on Information and Communication Technology (ICoICT) 2015
- An Enhanced Audio Ownership Protection Scheme Based on Visual Cryptography. - EURASIP Journal on Information Security 2014. A Springer Open Journal. License: Springer. 2014
- Exploiting Reference Images for Image Splicing Verification. - The International Journal of Digital Forensics & Incident Response: Digital Investigation, Elsevier. 2013
- Exploiting Reference Images in Exposing Geometrical Distortions. - International Journal of Multimedia and Its Application, AIRCC. 2013
- Multimedia Copyright Protection Scheme based on the Direct Feature-based Method. - in: Kazuhiro Kondo (Eds.) Multimedia Information Hiding Technologies and Methodologies for Controlling Data, ch.19, pp.413–440, IGI Global, 2012.
- Image Splicing Verification based on Pixel-based Alignment Method. - Proceedings of International Workshop on Digital-forensics and Watermarking (IWDW) LNCS 7809 pp. 198-212, Springer, Heidelberg. 2012
- An Image Splicing Detection based on Interpolation Analysis. - Proceedings of the 13th Pacific-Rim Conference on Multimedia (PCM), LNCS 7674, pp.390-401, Springer, Heidelberg. 2012
- An Efficient Key Generation Method in Zero-Watermarking for Audio. - The Seventh International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 2011). Dalian, China 2011
- Method Modification of Lempel Ziv Welch (LZW) by Applying Golomb Quotient. - Proceeding of International Conference on Telecommunication (ICTEL). 2010
- Study and Implementation of A Block-based Complexity Data Embedding for Data Hiding in Bitmap Image Files. - Proceeding of International Conference on Telecommunication (ICTEL). 2010
- Analysis and Implementation Rainfall Forecasting Using Evolution Strategies. - Proceeding of International Conference on Telecommunication (ICTEL). 2010

RESEARCH ACTIVITY

- Single Authentication: Exposing Tampering Artifacts of Splined Image (2016)

Dr. Rimba Whidiana Ciptasari

RIMBA Whidiana Ciptasari is a lecturer at the Telkom University since September 1, 2005. Born in Jayapura, December 21, 1974, she is interested in Computer Programming, Algorithm and Data Structure, Design and Analysis of Algorithm, Information Theory, Data hiding and watermarking, and Digital investigation: multimedia forensics.

Her education came from the undergraduate program of Computer Science, Padjadjaran University (1998), plus the study of informatics of Bandung Institute of Technology (ITB) (graduate degree, 2005) and computer science from Kyushu University, Fukuoka, Japan (2013, doctoral degree).

in Tel-U, Rimba has served as the Head of the Master of Informatics (February-April 2014) and now as the Vice Dean II for Financial and Resources Affairs of School of Engineering (since April 2014). ♦



RESEARCH FIELD

- Image Processing, Computer Programming, Algorithm and Data Structure, Design & Analysis of Algorithm, Information Theory, Data hiding and watermarking, & Digital investigation: Multimedia Forensics.

RESEARCH ACTIVITY

- Reliable Data Transmission of De-noised Wavelet Cardio Data Over Wireless Mesh Network (2016 - 2018)
- Development of Accurate Fall Monitoring System for Elderly (2016-2017)
- Development of Monitoring System Falling in the Elderly (SIMOJALA) High Precision (2016)
- Secure Single SAM Multiple Cards for Smart Campus (2016)
- New Authentication Model of Smart Card Reader for Secure Transaction in Smart Campus (2016)
- Eco Hydro Expert System of Lake Management Using Wireless Sensor of Real Time Monitoring (2015-2016)
- Cloud Based Environment for Interactive English Teaching and Learning (2014-2016)
- Fundamental Study of Enhancing the Accuracy of Signal Analysis in Electrocardiogram (ECG) (2014-2016)
- Real-Time Monitoring Ventricular Arrhythmias Based-on Artificial Intelligence Algorithm in Android Smartphone (2014-2015)
- A New algorithm of Peer-To-Peer Cooperative Video Streaming To Improve Video Streaming Performance Over Multimedia Social Network (2013-2015)
- A Novel Algorithm To Reduce Spam in Pocket Switched Networks (2013-2014)
- Algorithm of Dynamic Channel Assignment for Wireless Mesh Networks Environment (2012-2014)
- New Models for Vulnerability Analysis of Mobile Adhoc Network (MANET) Routing Protocol – MOHE (2012)
- Development of Intelligent Tracking System Based on Wireless LAN for Indoor Environments (2011-2012)
- Smart Defence-in-Depth on Mobile Wireless Ad Hoc Network (2011-2012)
- Integration of Quality of Service (QoS) into Routing-Optimization in Mobile IP Network to Improve the Network Performance and to Guarantee QoS Over the Network Routing (2010-2012)

PUBLICATION

- Secure Burst Control Packet Scheme for Optical Burst Switching Networks - International Broadband and Photonics Conference (2015)
- Pre-processing Image Database for Efficient Content Based Image Retrieval – VisionNet (2014)
- Study on the Performance of Slotted and Non-Slotted Optical Burst Switched Networks - 4th International Conference on Photonics (2013)
- A survey of E-Learning Security - International Conference on ICT for Smart Society (2013)
- A Review of Blackhole Attack in Mobile Adhoc Network - Proc. of 2013 3rd Int. Conf. on Instrumentation, Communications, Information Technology and Biomedical Engineering: Science and Technology. for Improvement of Health, Safety, and Environ (2013)
- BRAIN-F: Beacon Rate Adaption Based on Fuzzy Logic in Vehicular Ad Hoc Network - International Journal of Fuzzy System, Springer (2016)
- An UHD Video Handling System Using a Scalable Server Over an IP network - International Journal of Advance Media and Communication (IJAMC) (2016)
- ECG Parameters for Malignant Ventricular Arrhythmias: A Comprehensive Review - Journal of Medical and Biological Engineering – Springer (2016)
- ECG Beats Classification Algorithms - PLoS ONE (2016)
- Review on ECG-derived Predictors for Malignant Ventricular Arrhythmias - PLoS ONE (2016)
- Towards Next-Generation Routing Protocols for Pocket Switched Networks - Journal of Network and Computer Applications – Sciencedirect (2016)
- Trust Management in Vehicular Ad Hoc Network: A Systematic Review - EURASIP Journal on Wireless Communications and Networking (2015)
- Content Based Image Retrieval Using Color Strings Comparison - Procedia Computer Science (2015)
- Review on Cloud Computing Application in P2P Video Streaming - Procedia Computer Science (2015)
- QoS-Aware Ant-based Route, Wavelength and Time-slot Assignment Algorithm for Optical Burst Switched Networks - Transactions on Emerging Telecommunications Technologies (2015)

Satria Mandala, Ph.D.

- Investigating Severity of Blackhole Attack and Its Variance in Wireless Mobile Ad hoc Networks - Int. J. Embedded Systems (2015)
- A Survey of Spray and Wait Routing Protocol in Pocket Switched Network - Advanced Science Letters (2014)
- A Hierarchical Routing Protocol for Improving the Quality of Service in Wireless Sensor Network - Life Science Journal (2013)
- A Study on OFDM in Mobile Ad Hoc Network - International Journal of Advanced Computer Science and Applications (IJACSA) (2012)

INTELLECTUAL PROPERTY

- Book "A variant of Merkle Signature Scheme to Protect AODV Routing Protocol" (2014)
- Book "Performance Comparison of Popular Routing Algorithms in Pocket Switched Networks" (2014)
- Book "Quantifying the Severity of Blackhole Attack in Wireless Mobile Adhoc Networks" (2014)
- Secure Online Restaurant Reservation System with SSL (SORRS) - Copy Right (2014)
- E-Ordering System for Restaurant (EOS) – Copy right (2014)

ACHIEVEMENT

- Second Place in Second Telemedicine Innovation Challenge - Monash University Malaysia (2016)

BORN in Tulungagung, September 2, 1973, Satria Mandala has research interest covering Wired and Wireless Network Security, Wireless Sensor Network, Clouds and Grid Computing, Multimedia networks, and Image retrieval and Medical Informatics.

Satria studied Electronics/Control System in University of Brawijaya (1997). Furthermore, between 2004-2011, he completed his graduate and postgraduate programs on Communication & Networking from Universiti Teknologi Malaysia (UTM).

Before teaching at Tel-U, Satria has teaches at Muhammadiyah University of Malang (UMM), State Islamic University (UIN) of Malang, Universiti Teknologi Malaysia (UTM) from 2006 to July 2016. Since January 2016, he began lecturing for undergraduate and graduate programs in Tel-U.

Satria, wrote a book entitled *Pemrograman Web* (2006), has a lot of experience in the field of research, writing scientific papers, and as a reviewer of scientific journals and conferences both at home and abroad. ♦



RESEARCH FIELD

- Computer Network, Wireless Ad Hoc Network, Network Security.

Dr. Suyanto, M.Sc



RESEARCH FIELD

- Natural Language Processing (NLP), Artificial Intelligent, Artificial Neural Network

BORN in Jombang, December 3, 1974, Suyanto teaches are Machine Intelligence, Evolutionary Computation, and Soft Computing. He studied informatics engineering at STT Telkom between 1993 and 1998. His master degree was taken from Chalmers University of Technology in the field of Complex Adaptive Systems (2006). and for the doctoral degree he studies computer science at Gadjah Mada University between 2012 and 2016. ♦

RESEARCH ACTIVITY

- Study Information Retrieval To Build Indications Plagiarism Detection Systems (2013)

PUBLICATION

- Modified Grapheme Encoding and Phonemic Rule to Improve PNNR-Based Indonesian G2P - International Journal of Advanced Computer Science and Applications (IJACSA) (2016)
- Automatic Segmentation of Indonesian Speech into Syllables using Fuzzy Smoothed Energy Contour with Local Normalization, Splitting, and Assimilation - ITB journal of ICT Research and Applications (2016)
- Nearest Neighbor - Based Indonesian G2P Conversion – Telkomnika (2016)
- Indonesian Syllabification Using Pseudo nearest Neighbor Rule and Phonotactic Knowledge - Speech Communication, Elsevier (2016)
- Nearest Neighbor-Based Indonesian G2P Conversion - TELKOMNIKA Telecommunication, Computing, Electronics and Control (2014)
- Automatic Segmentation of Indonesian Speech into Syllables using Fuzzy Smoothed Energy Contour with Local Normalization, Splitting, and Assimilation - Journal of ICT Research and Applications (2014)
- Discrete Firefly Algorithm for Traveling Salesman Problem: A New Movement Scheme (2013)
- Yooi: An Indonesian Short Message Dictation (2012)
- Isolated Word Recognition Using Ergodic Hidden Markov Models and Genetic Algorithm (2012)
- Discrete Cuckoo Search for Traveling Salesman Problem (2012)
- Lecture Notes in Computer Science (2011)
- Globally Evolved Dynamic Bee Colony Optimization (2011)
- An Informed Genetic Algorithm for University Course and Student Timetabling Problems - Proceedings of the 10th International Conference on Artificial Intelligence (2010)
- An Informed Genetic Algorithm for University Course and Student Timetabling Problems (2010)
- Signal Energy-Based Automatic Speech Splitter: A Tool For Developing Speech Corpus (2007)

ACHIEVEMENT

- Improving the Quality of International Publication (PKPI) / Sandwich-like – Ministry of Research & Technology (2015)

PUBLICATION

- ELP-M2: An Efficient Model for Mining Least Patterns from Data Repository - The Second Soft Computing and Data Mining (2016)
- The Algorithm Expansion for Starting Point Determination using Clustering Algorithm Method with Fuzzy C-Means - The Second Soft Computing and Data Mining (2016)
- Instruments Measurement Design of Human Behaviour in Collaborative Software Construction - ICAICTA (2015)
- The Role of Characteristics Human Behavior in Software Development Team To Improve Source Code Quality - International Journal of Applied Engineering Research (IJAER) 2015
- The Role of Characteristics Behavior in Software Development Team to Improve Source Code Quality – IJAER (2015)
- *Pengelompokan Tim Pengembang Berdasarkan Kriteria Perilaku Manusia dalam Kolaborasi Pengembangan Perangkat Lunak* (Grouping Criteria Development Team Based Human Behavior in Software Development Collaboration) - Jurnal Rekayasa Sistem dan Industri (2015)
- Collaborative model in construction phase of software - International Conference on Information Technology Systems and Innovation (ICITSI), (2014)
- *Analisis Proses Maintenance Aplikasi, Kasus : Aplikasi Web Emisi Gas Rumah Kaca Pada Sektor Industri di Kementerian Perindustrian* (Maintenance Process Analysis Application, Case: Web Application Greenhouse Gas Emissions in Industry Sector in the Ministry of Industry) - Jurnal Rekayasa dan Sistem Industri (2014)
- Human behavior conceptual model in collaborative software development product quality - International Conference on Advanced Computer Science and Information Systems (ICACSIS) (2013)
- *Faktor Perilaku Manusia dalam Pengembangan Perangkat Lunak* (Factors Human Behavior in Software Development) - National Conference on Information Systems(KNSI) (2013)
- Pengembangan Prototipe Human Readable Knowledge Based Dengan Menggunakan Wiki (Prototype Development of Knowledge-based Human readable by Using Wiki) - Seminar on Information Technology, Computers, and Applications (SNATIKA) 2011
- Collaboration Model of Software Development - International Conference on Electrical Engineering and Informatics (ICEEI) (2011)
- *Pengembangan Aplikasi Inventarisasi Emisi Gas Rumah Kaca pada Sektor Industri* (Application Development Inventory of Greenhouse Gas Emissions in the Industrial Sector) - Jurnal Informasi STMIK-IM (2011)
- *Perumusan Profil Kompetensi Pekerjaan pada Divisi Teknologi Informasi* (Work on the formulation of Competency Profile Information Technology Division) - Jurnal Sains Manajemen & Akuntansi (2011)
- *Pendekatan Empiris Rekayasa Perangkat Lunak* (Empirical Software Engineering Approach)- Jurnal Informasi STMIK-IM (2011)
- *Pedoman Analisis Proses Bisnis di Instansi Pemerintah Kota Bandung* (Guidelines for Business Process Analysis in Bandung City Government Agencies) - Jurnal Informasi STMIK-IM (2010)

Dr. Tien Fabrianti Kusumasari

RESEARCH FIELD

- Software Engineering, Information Technology Project Management.

RESEARCH ACTIVITY

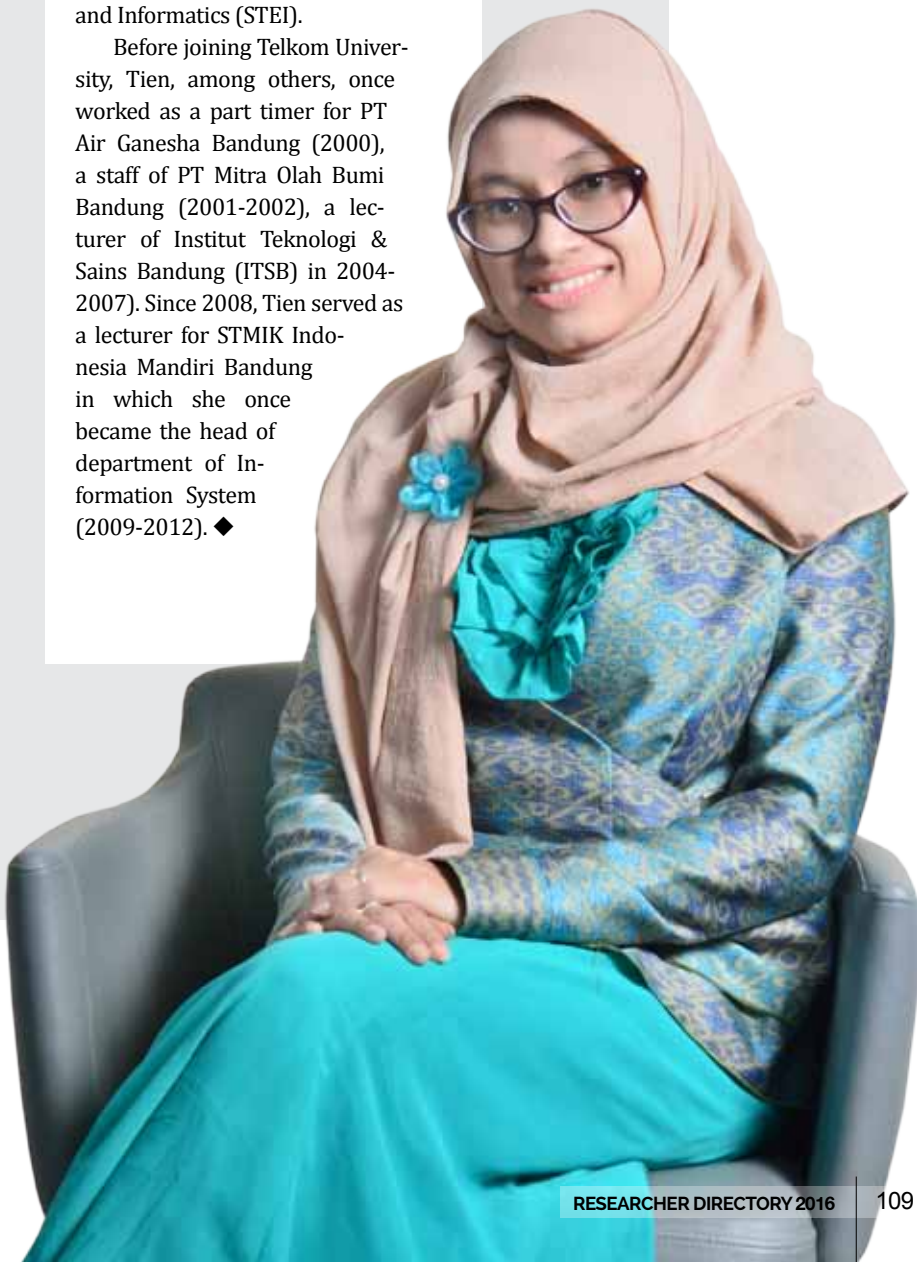
- Modelling Reception Level Measurement Instruments Use System Verification Information Industry (2016)
- Refactoring Databases and Information Systems Maintenance Monitoring Greenhouse Gas Emissions in the Industrial Sector (2015)
- Grouping Development Team Based Collaboration Criteria Human Behavior in Software Development (2014)
- Collaboration Model Driven Software Development Perspective Quality of Human Behavior (2013-2014)
- Development of "Operator Training Simulator (OTS)" for Ammonia Plant, a case study: PT Pupuk Kaltim - (2010)

EXPERTISE EXPERIENCE

- Draft Governance Policy and Data Management Agency of Drug and Food (BPOM) – BPOM (2016)

BORN in Wonogiri, February 19, 1979, Tien graduated from the department of chemistry engineering, Bandung Institute of Technology (ITB) in 2001. Both her master and doctoral degree was taken from the same university and department, namely from the School of Electrical Engineering and Informatics (STEI).

Before joining Telkom University, Tien, among others, once worked as a part timer for PT Air Ganesha Bandung (2000), a staff of PT Mitra Olah Bumi Bandung (2001-2002), a lecturer of Institut Teknologi & Sains Bandung (ITSB) in 2004-2007). Since 2008, Tien served as a lecturer for STMIK Indonesia Mandiri Bandung in which she once became the head of department of Information System (2009-2012). ♦



Yanti Rusmawati, Ph.D



YANTI, born on 24 January 1971, is a lecturer of Tel-U since 2014, with teaching subjects Introduction to Computer Science, Theory of Computation, Design and Analysis of Algorithms, Programming Basics, KPST, Classroom Project, and TA1. While his research interest is Reactive systems, dynamic networks (any unreliable network systems), formal methods (modeling and reasoning), and concurrent systems and network science.

Her higher education was obtained from Bandung Institute of Technology (ITB, undergraduate degree, 1994), University of Indonesia (graduate degree, 2002), and The University of Manchester, UK (MSc in Advanced Computer Science, 2010, and PhD in Computer Science program, 2014).

Before teaching at Tel-U, Yanti has experience teaching at the Polytechnics Ciwaruga ITB, Trisakti University, Bogor Ibn Khaldun University, from 1995 to 2009. and 1996 is the earliest time for Yanti to earn a number of achievement related to her writing scientific papers, especially in writing competition organized by PT Pos Indonesia, Bank Indonesia & Ministry of Research and Technology (Kemendiknas), Indonesian Institute of Sciences (LIPI), and so forth. ♦

RESEARCH FIELD

- Marketing, Quality Management, Service Quality, Small Medium Enterprises (SMEs).

RESEARCH ACTIVITY

- Construction of Trustworthy Real-Time Control Systems Project (2000)
- Using Logical Framework for Evolvable Systems to Specify and Simulate the TCP/IP Network Protocol (2010)
- Modelling and Reasoning About Dynamic Networks as Concurrent Systems (2014)
- Towards a Dynamic Modeling System by Analyzing Patterns Railway Noise on Commuterline Systems (2016)

INTELLECTUAL PROPERTY

- Book “Bahasa C” - Politeknik Citaruga ITB (1995/1996)

PUBLICATION

- Towards the Modeling of Dynamic Train Systems: Disruption Pattern Analysis - (The 4th International Conference on Information and Communication Technology) ICoICT 2016
- Modelling and Reasoning about Dynamic Networks as Concurrent Systems - OASlcs-Open Access Series in Informatics 2013
- Models for Dynamic Networks: A Survey Seminar dan Temu Alumni Penerima Beasiswa - Kementerian Kominfo Tahun 2014
- *Mendorong Kredit Usaha Mikro Kecil dan Menengah Melalui Eliminasi Asymmetric Information dengan Teknologi Informasi* (Credit Encourage Micro Small and Medium Through Elimination Asymmetric Information with Information Technology) – Indonesian Bank 2007
- Open Source: Tak Kenal Maka Tak Sayang (Open Source: Unknown, Therefore Unloved) – Indonesian Bank & Ministry of Research & Technology 2005

ACHIEVEMENT

- Doctoral Scholarship - Department of Communication and Informatics / 2009-2013.
- Finalists Student Poster, TNC 2013 conference Terena.
- 2nd Innovation Bank Indonesia on Knowledge Management - 2007.
- Innovation Essay Contest Finalists about Open Source - Bank Indonesia and Kemenristek 2005.
- Contender II Essay Contest KORPRI / LIPI in 34 KORPRI Anniversary -2005.
- Contender II Paper Fair - PT. Pos Indonesia 1996.