

# INTERNATIONAL JOINT CONFERENCE: CONMEDIA 2017 & ICON-SONICS 2017

Wednesday, 08 November 2017

08.00 - 08.35	<b>Registration</b>
08.35 - 09.00	<b>Welcome Coffee Break</b>
09.00 - 10.00	<b>Room: Jogjakarta Hall</b>
	<b>Opening Ceremony</b>
	1 Hira Meidia, Ph.D (General Chair of The 4th CONMEDIA 2017)
	2 Assoc. Prof. Dr. Hugeng (General Chair of ICON-SONICS 2017)
	3 Dr. Ninok Leksono, M.A. (Rector of Universitas Multimedia Nusantara)
	4 Michael Freiherr von Ungern-Sternberg (Ambassador of the Federal Republic of Germany to Indonesia, ASEAN and Timor-Leste)
	5 Dr. Irene Jansen (Director of the DAAD Regional Office Jakarta)
6 Prof. Dr. Fitri Yuli Zulkifli, ST., MSc., IPM., SMIEEE (Chairman of IEEE Indonesia Section)	
10.00 - 12.00	<b>Room: Jogjakarta Hall</b>
	<b>Keynote Session</b>
	<b>Keynote Speaker 1</b> Prof. Paulo LISBOA ( Liverpool John Moores University, United Kingdom) Big data for decision support in digital marketing and healthcare
	<b>Keynote Speaker 2</b> Prof. Dr.-Ing. Norbert Schwesinger (Technische Universität München, Germany) Energy Harvesting as One Perspective Power Supply for Smart Sensors
12.00 - 13.00	<b>Lunch</b>
13.00 - 14.00	<b>Paper Presentation Session I</b>
	<b>Room: Jogjakarta Hall</b>
	<b>Track: Network and Systems (Moderator: Kanisius Karyono)</b>
	X-1-A-1 Performance Comparison of Wi-Fi and LTE for Internet of Things over Named Data Networking
	Asri Ilmananda, Ihsan Ibrahim, Arief Lutfia Aulia and Riri Fitri Sari (Universitas Indonesia, Indonesia)
	X-1-A-2 A Scalable and Reconfigurable Verification and Benchmark Environment for Network on Chip Architecture
	Felix Lokananta (Universitas Multimedia Nusantara, Indonesia); Dicky Hartono (Silterra Malaysia Sdn. Bhd., Malaysia); Chong Ming Tang (Universiti Tunku Abdul Rahman, Malaysia)
	X-1-A-3 Evaluation of Behavior Estimation Using Ward's Method in Multifunction Outlet System
	Sho Kimura, Toshihiko Sasama, Takao Kawamura and Kazunori Sugahara (Tottori University, Japan)
	<b>Room: Sida Mukti</b>
	<b>Track: Software Engineering (Moderator: Enrico Siswanto)</b>
	X-1-B-1 Implementation of C4.5 Algorithm to Determine Hospital Readmission Rate of Diabetes Patient
	Felix Tamin and Ni Made Satvika Iswari (Universitas Multimedia Nusantara, Indonesia)
	X-1-B-2 Algorithm Comparison Performance in Assessing the Quality of University Websites
	Tenia Wahyuningrum (Institut Teknologi Telkom, Indonesia); Nur Rokhman and Aina Musdholifah (Universitas Gadjah Mada, Indonesia)
	X-1-B-3 An Integrated Tool to Support Early-Phase Requirements Analysis
	Andre Rusli (Universitas Multimedia Nusantara, Indonesia); Osamu Shigo (Tokyo Denki University, Japan)
	<b>Room: Sida Mulya</b>
	<b>Track: Computational Intelligence</b>
	X-1-C-1 Toward to An Exaggeration Engine for Facial Animation: Evaluating the Difference of RBF Implementation in Expression-Marker Transfer
	Arif Sulistiyono, Agnes Karina Priitha Atmani, Samuel Gandang Gunanto and Troy Troy (Institut Seni Indonesia Yogyakarta, Indonesia)
	X-1-C-2 Toward a Dynamic Disaster Decision Support System in Citarum River Basin: FEWEAS Citarum
	Armi Susandi and Mamad Tamamadin (Bandung Institute of Technology, Indonesia)
X-1-C-3 Performance Analysis of Conventional Moving Average Methods in Forex Forecasting	
Seng Hansun and Marcel Bonar Kristanda (Universitas Multimedia Nusantara, Indonesia)	
<b>Room: Sida Asih</b>	
<b>Track: Mobile Technology &amp; Applications (Moderator: Friska Natalia)</b>	
X-1-D-1 Assembly Instruction with Augmented Reality on Android Application "Assembly With AR"	
Rosalina Rosalina (President University, Indonesia)	
X-1-D-2 Phatsa: A Web-Based Application for Forecasting using Conventional Moving Average Methods	

		Marcel Bonar Kristanda and Seng Hansun (Universitas Multimedia Nusantara, Indonesia)
	X-1-D-3	Integration of Google Map in Android "Shop Alliance"
		Nur Hadisukmana and Rosalina Rosalina (President University, Indonesia)
	<b>Paper Presentation Session II</b>	
	<b>Room: Jogjakarta Hall</b>	
	<b>Track: System Analysis and Design (Moderator: Wira Mungguna)</b>	
	X-2-A-1	IT Governance Evaluation on Educational Institutions based on COBIT 5.0 Framework
		Dym Darmawan and Wella Wella (Universitas Multimedia Nusantara, Indonesia)
	X-2-A-2	Maturity Levels of Academic Information Services of Higher Education Using IT Governance
		Sandy Kosasi, Vedyanto Vedyanto, and I Dewa Ayu Eka Yuliani (STMIK Pontianak, Indonesia)
	X-2-A-3	A Dempster-Shafer Approach to an Expert System Design in Diagnosis of Febrile Disease
		Vincent Andrew and Friska Natalia (Universitas Multimedia Nusantara, Indonesia)
	<b>Room: Sida Mukti</b>	
	<b>Track: System Analysis and Design (Moderator: Yustinus Eko)</b>	
	X-2-B-1	Factors Affecting Procrastination in the Virtual Teams: An Experimental Research Approach Based on the Theory of Planned Behavior
		Andree E. Widjaja (Universitas Pelita Harapan, Indonesia); Riswan E. Tarigan (Bina Nusantara University, Indonesia)
	X-2-B-2	Implementation of Decision Support System for Campus Promotion Management using Fuzzy Multiple Analytic Decision Making (FMADM) Method (Case Study: Universitas Multimedia Nusantara)
		Enrico Siswanto and Adiputra Katili (Universitas Multimedia Nusantara, Indonesia)
	X-2-B-3	Knowledge-based Systems in Decision Support Context: A Literature Review
		Ikut Tri Handoyo and Dana Sensuse (Universitas Indonesia, Indonesia)
14.00 - 15.00	<b>Room: Sida Mulya</b>	
	<b>Track: Control Systems</b>	
	X-2-C-1	DC Source-based Stand-alone Microgrid Control using I-PD Scheme for a MIMO System
		Seno D Panjaitan, Rudi Kurnianto and Bomo Wibowo (Tanjungpura University, Indonesia); Matthew C Turner (University of Leicester, United Kingdom (Great Britain))
	X-2-C-2	Navigation System for Smartphone-based Autonomous Underwater Vehicle
		Muhammad Ikhsan Sani, Simon Siregar, Muhammad Zein Ersyad and Yurvan Igo Wibowo (Telkom University, Indonesia)
	X-2-C-3	Development of a Control System for Human Follower Quadcopter
		Erikson Ferry Sinaga and Sandy Boentoro (Swiss German University, Indonesia)
	<b>Room: Sida Asih</b>	
	<b>Track: Application and Business Intelligence (Moderator: Seng Hansun)</b>	
	X-2-D-1	Application Software for Learning CPU Process of Interrupt and I/O Operation
		Fransiscus Halim (Universitas Multimedia Nusantara, Indonesia)
	X-2-D-2	The Design of Mobile Indoor Robot Guidance System
		Dhanny Haryanto, Kanisius Karyono, and Samuel Hutagalung (Universitas Multimedia Nusantara, Indonesia)
	X-2-D-3	Open Sourcing Proprietary Application, Case Study: KIRI Website
		Pascal Alfadian Nugroho (Universitas Katolik Parahyangan); Vania Natali (Parahyangan Catholic University, Indonesia)
15.00 - 15.15	<b>Coffee Break</b>	
	<b>Paper Presentation Session III</b>	
	<b>Room: Jogjakarta Hall</b>	
	<b>Track: Embedded Systems and Communication (Moderator: Hira Meidia)</b>	
	X-3-A-1	Fish Freshness Classification Method based on Fish Image using k-Nearest Neighbor

15.15 - 16.15

	Ni Made Satvika Iswari, Wella, Ranny (Universitas Multimedia Nusantara)
X-3-A-2	Crowd Evacuation using Multi-Agent System with Leader-Following Behaviour Mochammad Fachri, Susi Juniastuti, Supeno Nugroho and Mochamad Hariadi (Institut Teknologi Sepuluh Nopember, Indonesia)
X-3-A-3	Towards Indonesian Speech-Emotion Automatic Recognition (I-SpEAR) Novita Wunarso and Yustinus Eko Soelistio (Universitas Multimedia Nusantara, Indonesia)
<b>Room: Sida Mukti</b>	
<b>Track: Application and Business Intelligence (Moderator: Felix Lokananta)</b>	
X-3-B-1	Cost Benefit Analysis of MVNO Business Models for LTE 4G Services in Bandung City Ade Wahyudin and Norma Amalia (Institut Teknologi Telkom Purwokerto, Indonesia); Innel Lindra (Tritech Consult Indonesia, Indonesia)
X-3-B-2	Improvement of Term Weight Result In The Information Retrieval Systems Amril Mutoi (Buana Perjuangan University Karawang, Indonesia); Adam Puspabhuana (STMIK Kharisma Karawang, Indonesia)
X-3-B-3	Determining Single Tuition Fee Of Higher Education In Indonesia : A Comparative Analysis Of Data Mining Classification Algorithms Muhammad Nur Yasir Utomo and Adhistya Erna Permanasari (Universitas Gadjah Mada, Indonesia); Eddy Tungadi and Irfan Syamsuddin (Politeknik Negeri Ujung Pandang, Indonesia)
<b>Room: Sida Mulya</b>	
<b>Track: Data Mining &amp; Analytics</b>	
X-3-C-1	Logistic Regression Ensemble to Classify Alzheimer Gene Expression Heri Kuswanto and Reynaldy Wisnu Werdhana (Institut Teknologi Sepuluh Nopember, Indonesia)
X-3-C-2	Dwipa Ontology II: A Semi-Automatic Ontology Population Process for Bali Tourism Based on the Ontology Population Methodology Guson Kuntarto, Fahmi L. Moechtar, Irwan Prasetya Gunawan, Berkah I. Santoso and Yudhiansyah Ahmadin (Universitas Bakrie, Indonesia)
X-3-C-3	Manchester United Soccer Team News Classification Using Support Vector Machine Theodore Putra and David Boy Tonara (Universitas Ciputra, Indonesia)
<b>Room: Sida Asih</b>	
<b>Track: Data Mining &amp; Analytics (Moderator: Wella)</b>	
X-3-D-1	New Traders' Mood when using Trading Online Application: Case Study: New Traders in Universitas Multimedia Nusantara Lisa Oviani and Raymond Oetama (Universitas Multimedia Nusantara, Indonesia)
X-3-D-2	From Knowledge Society towards Religious Wisdom Community: Understanding ICT in Islamic Perspective Saiful Anwar (STIE Ahmad Dahlan & BRISyariah, Indonesia)
X-3-D-3	Analyzing Factors Influencing Behavior Intention to Use Snapchat and Instagram Stories Vincent Coa and Johan Setiawan (Universitas Multimedia Nusantara, Indonesia)
<b>Paper Presentation Session IV</b>	
<b>Room: Sida Mukti</b>	
<b>Track: Monitoring technologies</b>	
X-4-B-1	Software Requirement Specification of Intelligent System for Monitoring and Preventing Smartphone Addiction Agung Sedyono and Anung Ariwibowo (Universitas Trisakti, Indonesia)
X-4-B-2	Design and Implementation of an Automated Security System using Twilio Messaging Service Supreeta Venkatesan, Srinivasan Varsha, A Jawahar and Roshne Nandakumar (SSN College of Engineering, India)
X-4-B-3	Leverage Intrusion Detection System Framework For Cyber Situational Awareness System Bisyrn Masduki, Kalamullah Ramli and Muhammad Salman (Universitas Indonesia, Indonesia)
<b>Room: Sida Mulya</b>	
<b>Track: Modeling and simulation of smart cities</b>	
X-4-C-1	Optimizing ecosystem services of urban green spaces based on integer programming approach

16.15 - 17.15		Didit Okta Pribadi (Indonesian Institutes of Sciences, Indonesia); Chao Xu (Technische Universität München, Germany)	
	X-4-C-2	Priority maintenance of drinking water network and environmental factors Sri Maryati and Yakub Romdoni (Institut Teknologi Bandung, Indonesia)	
	X-4-C-3	Comparative Performance Testing of Solar Panels for Smart City Micro-grids Oo Abdul Rosyid (Agency for the Assessment and Application of Technology, Indonesia)	
	<b>Room: Sida Asih</b>		
	<b>Track: System Analysis &amp; Design (Moderator: Ni Made Satvika Iswari)</b>		
	X-4-D-1	Data Mining of Nuclear Family, School, and Society Environments Influences to Student Performance Nico Leonardi and Yo Ceng Giap (Buddhi Dharma University, Indonesia)	
	X-4-D-2	Data Visualization of Poverty Level at Provinces in Indonesia from the Year 2013-2015 Steven Cua and Johan Setiawan (Universitas Multimedia Nusantara, Indonesia)	
	X-4-D-3	Analysis and Development of Interface Design on Dki Jakarta and Tangerang'S Qlue Application Based on Don Norman's 6 Design Principles Sheila Novensa and Wira Mungguna (Universitas Multimedia Nusantara, Indonesia)	
	19.00 - 20.30	<b>Gala Dinner</b> <b>Room: Jogjakarta Hall</b>	

**Thursday, 09 November 2017**

08.00 - 09.00	<b>Registration</b>	
09.00 - 09.30	<b>Welcome Coffee Break</b>	
09.30 - 11.30	<b>Room: Jogjakarta Hall</b>	
	<b>Keynote Session</b>	
	<b>Keynote Speaker 1</b> Prof. Kunio Kondo (Tokyo University of Technology, Japan) Content production technology based on Media Science <b>Keynote Speaker 2</b> Prof. Dr. rer. nat. Alexander Ferrein (FH Aachen, Germany) Challenges for Intra-logistic Robots in the RoboCup Logistics League and beyond	
11.30 - 12.00	<b>Patronage Profile: PT Nusa Network Prakasa</b> Oleh: Budi Agung Cahyadi, M.kom (Save a Secure Your Bussines)	
12.00 - 13.00	<b>Lunch</b>	
13.00 - 15.00	<b>Room: Jogjakarta Hall</b> <b>Alumni DAAD Gathering</b>	
13.00 - 14.00	<b>Paper Presentation Session I</b>	
	<b>Room: Sida Mukti</b>	
	<b>Track: Mobile Technology (Moderator: Kanisius Karyono)</b>	
	Y-1-B-1	The Implementation of Eigenface Algorithm for Face Recognition in Attendance System Vincentius Kurniawan, Arya Wicaksana, and Maria Irmina Prasetyowati (Universitas Multimedia Nusantara, Indonesia)
	Y-1-B-2	The Mediation Effect of Intrinsic and Extrinsic Motivation on Generation Y: An Analysis of Mobile Advertising Attitudes Arie Kusumawati (Kalbis Institute, Indonesia)
	Y-1-B-3	Multi-Floor Indoor Positioning Mobile Application using Earth's Magnetic Field (Case Study: Universitas Multimedia Nusantara) Devin Ryan Riota, Marcel Bonar Kristanda, and Maria Irmina Prasetyowati (Universitas Multimedia Nusantara, Indonesia)
	<b>Room: Sida Mulya</b>	
	<b>Track: Image Processing &amp; Neural Networks</b>	
	Y-1-C-1	Digital Image Signature using Triple Protection Cryptosystem (RSA, Vigenere, and MD5) Rizky Damara Ardy, Oktaviana Rena Indriani, Christy Atika Sari, De Rosal Ignatius Moses Setiadi and Eko Hari Rachmawanto (Dian Nuswantoro University, Indonesia)
	Y-1-C-2	Histogram Peak Ratio-Based Binarization for Historical Document Image Aditya Mahastama and Lucia Krisnawati (Universitas Kristen Duta Wacana, Indonesia)
Y-1-C-3	Handwritten Digits Recognition using Ensemble Neural Networks and Ensemble Decision Tree Retno Larasati (University of Indonesia, Indonesia); Hak KeungLam (King's College London, United Kingdom)	
<b>Room: Sida Asih</b>		

	<p><b>Track: Digital Art &amp; Design (Moderator: Tomimatsu)</b></p> <p>Y-1-D-1 Identification of 2:3:5 Ratio as a Simple Visual Composition Technique on Website and Android Application Mobile User Interface Mohammad Rizaldi (Universitas Multimedia Nusantara, Indonesia)</p> <p>Y-1-D-2 Character Designing with Visual Approach for Puppet Animation in A Hybrid Short Animation "Ihan" Dominika Purwaningsih and Diva Stevina (Universitas Multimedia Nusantara, Indonesia)</p> <p>Y-1-D-3 Visualization of an Animated Documentary with a Hybrid Animation Techniques in "Broken Faith" Christine Mersiana Lukmanto (Universitas Multimedia Nusantara, Indonesia)</p>
	<p><b>Paper Presentation Session II</b> <b>Room: Sida Mukti</b></p> <p><b>Track: Embedded Systems and Communication (Moderator: Hira Meidia)</b></p> <p>Y-2-B-1 Software-based Turbo Decoder Implementation on Low Power Multi-Processor System-on-Chip for Internet of Things Dareen Kusuma Halim (Universitas Multimedia Nusantara, Indonesia); Chong Ming Tang and Mow-Song Ng (Universiti Tunku Abdul Rahman, Malaysia); Dicky Hartono (Silterra Malaysia Sdn. Bhd., Malaysia)</p> <p>Y-2-B-2 Comparison Analysis Of Passive Repeater Links Prediction Using Methods: Barnett Vigants &amp; ITU Models Alfin Hikmaturokhman, Ade Wahyudin, Alia S. Yuchintya, (Institut Teknologi Telkom Purwokerto, Indonesia); Toha Ardi Nugraha (Universitas Muhammadiyah Yogyakarta, Indonesia)</p> <p>Y-2-B-3 Smart Fridge Design using NodeMCU and Home Server based on Raspberry Pi 3 Matthew Edward, Kanisius Karyono, and H Meidia (Universitas Multimedia Nusantara, Indonesia)</p> <p><b>Room: Sida Mulya</b></p> <p><b>Track: Energy efficient technologies</b></p> <p>Y-2-C-1 Development of Street Lights Controller Using Wifi Mesh Network Rifki Muhendra and Yudha Hamdi Arzi (Institut Teknologi Bandung, Indonesia)</p> <p>Y-2-C-2 Study of Smart Illumination Control System with M2M Communication Technology CHEN Hong, ZHU Yue, WANG RiChi and WU JianDe (Zhejiang University, P.R. China)</p> <p>Y-2-C-3 Power Meter Monitoring for Home Appliances Based on Mobile Data Communication Soeharwinto, Muhammad Fadhlan Ariska, Baihaqi Siregar, Ulfi Andayani and Fahmi Fahmi (University of Sumatera Utara, Indonesia)</p> <p><b>Room: Sida Asih</b></p> <p><b>Track: Computational Science and Technology (Moderator: Yustinus Eko)</b></p> <p>Y-2-D-1 Security System With 3 Dimensional Face Recognition Using PCA Method and Neural Networks Algorithm Adhi Kusnadi, Jonathan Jonathan and Daud Julio (University of Multimedia Nusantara, Indonesia)</p> <p>Y-2-D-2 Fuzzy Controller Design with Fuzzy Equations and Z-Numbers Raheleh Jafari and Sina Razvarz (National Polytechnic Institute, Mexico)</p> <p>Y-2-D-3 Drone Ad-Hoc Networks (DRANETs): A Critical Review Abdul Aziz Abdullah (Politeknik Negeri Jakarta, Indonesia &amp; FTMK, UTaM, Malaysia)</p> <p>Y-2-D-4 Detection Irregular Behavior in Room Using Environmental Sensors and Power Consumption of Home Appliances Learning in HMMs ShiJie Zhao (Tottori University, Japan)</p>
14.00 - 15.00	
15.00 - 15.15	<p><b>Coffee Break</b></p> <p><b>Room: Jogjakarta Hall</b></p> <p><b>Track: Digital Art &amp; Design (Moderator: Tomimatsu)</b></p> <p>Y-3-A-1 Data Visualization Indicator Disease (Malaria, Dengue Fever, and Measles) and the Availability of Indonesia Hospital and Medical Personnel in the Year 2012-2015 Immanuel Luigi Da Gusta and Johan Setiawan (Universitas Multimedia Nusantara, Indonesia)</p>

15.15 - 16.15	Y-3-A-2	"Splunk" Cave Exploration Games:Adaptation of Anticipatory Responses into Game Level Design Muhammad Cahya Daulay and Mega Iranti Kusumawardhani (Universitas Multimedia Nusantara, Indonesia)
	Y-3-A-3	Tionghoa Decoration Motifs Adaptation in Property Design in Animated Film "Cio Tao" Mega Alinjaya, Yusup Martyastiadi, and Matheus Prayogo (Universitas Multimedia Nusantara, Indonesia)
	<b>Room: Sida Mukti</b>	
	<b>Track: Smart buildings &amp; Automations</b>	
	Y-3-B-1	Recurrent Neural Networks Model for WiFi-based Indoor Positioning System Yuan Lukito and Antonius Rachmat Chrismanto (Universitas Kristen Duta Wacana, Indonesia)
	Y-3-B-2	Implementation of Air Conditioning Control System Using REST Protocol Based on NodeMCU ESP8266 Laurentius Kuncoro Probo Saputra and Yuan Lukito (Universitas Kristen Duta Wacana, Indonesia)
	Y-3-B-3	Simple biosensor using biochip-G for detection of dissolved oxygen produced from the algae <i>Chlorella vulgaris</i> photosynthesis mechanism Lazuardi Umar, Rahmondia Nanda Setiadi, Yanuar Hamzah and Tetty Marta Linda (University of Riau, Indonesia)
	<b>Room: Sida Mulya</b>	
	<b>Track: Health, e-Health, Biomedical</b>	
	Y-3-C-1	Implementation of Kalman Filter Method for Tracking Position of Alzheimer's Patients Aries Pratiarso, Achmad Ilham Imanuddin, Mike Yuliana, Prima Kristalina and I Gede Puja Astawa (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
	Y-3-C-2	3D Colour Marker Based Tracking of Surgical Tool in Image-Guided Surgery Wahju Sediono and Nur'ain Saaidon (International Islamic University Malaysia, Malaysia)
	Y-3-C-3	Needle Force Insertion Modeling based on Comparison of Ex-Vivo Tissue and Phantom Tissue Muhammad Salehuddin (Universitas Multimedia Nusantara, Indonesia); Augie Widoyatriatmo and Suprijanto (Institut Teknologi Bandung, Indonesia)
<b>Room: Sida Asih</b>		
<b>Track: Interactive Media Design (Moderator: Aditya Satyagraha)</b>		
Y-3-D-1	UI/UX Analysis & Design For Mobile E-Commerce Application Prototype on Gramedia.com Marcellii Indriana and Muhammad Leyri Adzani (Universitas Multimedia Nusantara, Indonesia)	
Y-3-D-2	Sinergy of Art and Animation Technology in Multimedia Performance Art Creation Entitled Sad Ripu I Made Marthana Yusa, Putu Satria Udyana Putra and I Nyoman Agus Suarya Putra (STMIK STIKOM Indonesia, Indonesia)	
Y-3-D-3	Panawa Animation Movement Design: Rat Character with Human Personality Eva Aulia and Christian Aditya (Universitas Multimedia Nusantara, Indonesia)	
Y-3-D-4	Design and Development of Computer Spesification Recommendation System Based on User Budget with Genetic Algoritm Michael and PM Winarno (Universitas Multimedia Nusantara, Indonesia)	
16.15 - 16.30	<b>Closing Ceremony</b>	

**Friday, 10 November 2017**

08.00 - 17.00	<b>Start Point: Lobby Hotel</b> <b>Tour De Jogjakarta City</b>
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