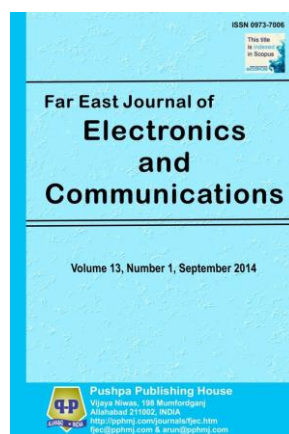


The 5th International Conference on Advances in Intelligent
Systems in Bioinformatics, Chem-Informatics, Business
Intelligence, Social Media and Cybernetics 2017
(IntelSys 2017)



Conference Program



The Patra Bali Resort & Villas – The Gianyar Room

22 - 23 July 2017

The Patra Bali Resort & Villas – The Gianyar Room
Jl. Ir. H. Juanda, South Kuta Beach, Kuta 80361 Bali - Indonesia Phone: +62 361 935 1161 | Fax: +62 361 935 2030

Instructions for Presenters

1. Please check this Program for your presentation time(s) and room(s). Please go to the room five minutes before the session starts and report to the Session Chair.
2. Please do not exceed your allotted time. Please follow the instructions of the Session Chair.
3. If the Session Chair(s) is/are absent from the session, the last speaker should serve as the Session Chair.

Instructions for Session Chairs

Session chairs are kindly requested to do the following:

1. Calculate the time allocated for each paper in your session. The time allocated to a paper may be different in different sessions, due to uneven distributions of papers in different areas (the number to the left of a session in the "Conference Program" next page shows the number of papers allocated to this session) and a small number of absentees due to visa and other reasons.
2. Arrive at the room of the session five minutes before the session starts and identify each of the speakers for the session.
3. Do not allow presentations or the subsequent discussions to run beyond the starting time of the next presentation.
4. If the presenter of a paper is absent ("no-show"), please continue to the next presentation. Please check again at the end of the last presentation whether the "no-show" turns up. Best efforts have been made to reduce the number of no-shows; however, they may not be eliminated.
5. Each oral presentation room is equipped with an LCD projector. If something is not working properly, please contact conference staff.

Keynote Speakers

1. Dr. Chew Fong Peng



Dr. Chew Fong Peng received her B.A.(Hons) (1996), Master of Arts (1997), and Doctor of Philosophy (2004) in Malay Study from National University of Malaysia. She is currently lecturer at Faculty of Education, University of Malaya (UM).

Presented approximately 125 working papers in international conferences in Malaysia and foreign countries include United States of America, United Kingdom, France, Switzerland, Greece, Japan, South Korea, China, Taiwan, Singapore, Thailand, Philippine and Indonesia. Published 5 books, 65 articles published in journals, 58 papers in conference proceedings, 32 chapters in books, 15 translated books including creative writings, and creative writings. She also the editor for international book, namely Taylor and Francis group besides became the editors for the national school text books in Malaysia.

Her research interest are Malay Language and Literature in education, Chinese Language and Literature in education, sociolinguistic, intercultural and translation. Dr. Chew has completed 14 research projects which 6 of them were led by her.

Dr. Chew won the "The World Outstanding Researcher" award (2013). She also won many medals in academy and innovative expo. UM Outstanding Service Award (2008), being listed in Marquis Who's Who in the World 2011, 2012, 2014, 2015, 2000 Intellectual in the World for 21st Century Year 2011.

Dr. Chew is article reviewer for some international journals, namely The Asia-Pacific Education Researcher, International Journal of English & Literature (IJEL), British Journal of Medicine and Medical Research, British Journal of Education, Society and Behavioral Science (BJESBS), International Journal of Psychology and Counselling (IJPC), Educational Research and Reviews (ERR) and African Journal of Pharmacy and Pharmacology (AJPP) besides some local journals. Besides that, Chew invited as Malay poem reciter at state and national level.

Chew was invited as visiting professor at Peking University from October, 2011 to June, 2012 during her sabbatical leave.

2. Dr. Fonny Hutagalung



Fonny Hutagalung received the B.Sc. in psychology, Master of Industrial and organizational Psychology, and Doctor in Psychology from National University of Malaysia in 1996, 2003, 2011, respectively. She is currently Head of Department of Educational Psychology and Counseling. Her research interest are Psychological testing, Cognitive abilities in Early Childhood, Human Development, behavior analysis, trauma in early childhood and etc. She also takes responsibility for the teaching and learning portfolio and also conducting an psychological testing and assessment for the undergraduate and post graduates students. She oversees local and international undergraduate and post graduates student matters and has recently with her team, developed a comprehensive student advisory system for the faculty. Her most recent books are 'Research in Early Childhood Education (2016)' and 'Introduction to Social Psychology: Perspective and Knowledge (2016)'. Dr. Fonny Hutagalung also the Editor for international books such as Taylor and Francis group Social Sciences and Inter-disciplinary (2016) and The Role of Service in the Tourism & Hospitality Industry (2015); Editor for Springer and a Guest Editor for international journal such as Advances Science Letters. Dr. Fonny Hutagalung is an active lecturer and researcher which had more than 20 research articles that has been published in Scopus Journal. She is also member of Malaysian Psychological Association, International Council and Asian Psychology Association.

3. Sasan Adibi Ph.D



Title: Non-Invasive Paradigm in Health Informatics Well-being and Disease Monitoring

Abstract – Technology assisted systems have recently been used to help with diagnosis and prognosis of diseases and health conditions. One class of such systems fall under the umbrella of non-invasive methods, which includes sensing devices used to track and monitor diseases without the use of invasive means (needles, incisions, ruptures, etc.). Non-invasive sensing is gaining a lot of market momentum and penetrating into various applications in the healthcare/consumer markets. This talk takes a look at a whole range of non-invasive devices and approaches targeting fitness, vehicular informatics, disaster recovery systems, and disease management.

Biography – Sasan Adibi (BS'95, MS'99, MS'05, PhD'10, SMIEEE'11) has a PhD degree in Communication and Information Systems from University of Waterloo, Canada and the recipient of the best PhD thesis award from the IEEE Society. He is currently involved in the research, design, implementation, and application Electronic Health (eHealth) and Mobile Health (mHealth). Sasan's research publication background is mostly in the areas of Quality of Service (QoS), Security, and eHealth/mHealth. He is the first author of 70+ journal/conference/book chapter/white paper publications and is a co-editor of four books, two of which are in the areas of mHealth and the other two books are in the areas of 4th Generation Mobile Networks and QoS. He is an inventor/co-inventor of 4 patents in the areas of Health Informatics. He has 9+ years of strong industry experiences, having worked in a number of high-tech companies, including: Nortel Networks, Siemens Canada, BlackBerry Corp., WiMAX Forum, and Huawei Technologies. He is the founder and managing director of Cyber Journals and serving as Cyber Journals Health Informatics Associate Editor. He served as a Vice Chancellor Research Fellow at Royal Melbourne Institute of Technology (RMIT) at the Department of Business IT and Logistics for two years. He is currently a faculty member in the School of Information Technology at Deakin University.

**The 5th International Conference on Advances in Intelligent Systems in Bioinformatics,
Chem-Informatics, Business Intelligence, Social Media and Cybernetics 2017
(IntelSys 2017)**

Conference Program

Notes/Session ID

		Notes/Session ID
Day 1: 22 July 2017		
08:30 - 09:00	Registration Starts - Coffee and Snacks Time	
09:00 - 09:10	Opening by General Chair	
09:10 - 09:30	Welcome Dance	
09:30- 10:30	Keynote Speaker : Dr. Fony Hutagalung (University of Malaya, Malaysia)	
10:30 - 10:45	Photo Session & Coffee Break	
10:45 - 11:45	Keynote Speaker : Dr. Chew Fong Peng (University of Malaya, Malaysia)	
11:45 - 13:30	Lunch Break	
13:30 - 15:00	Session : Education (Session Chair:)	
	IC 101	The Influence Of Competence, Work Motivation And Job Satisfaction On Organizational Citizenship Behaviour (OCB) And The Performance Of Marine Higher Education's Lecturer In Indonesia
	IC 108	Higher Order of Thinking Skills in Teaching Malay Language through Questions and Questioning among the Teachers
	IC 109	Using Poems in Increasing Phonological Awareness among Children
	IC 116	Relationship of Emotional Intelligence and Job Performance among Early Childhood Professionals: A Preliminary study
	IC 124	Influencing Factors for Ethnic Tolerance among Multi-Ethnic Youths
	IC 139	Parental Challenges in Filial Therapy Process: A Conceptual Paper
	IC 140	Report on the Results of a Monitoring Study Conducted in Russian Federation on the Prevention of Addictive and Suicidal Behavior among Children and Adolescents
	IC 142	Transformation and Future on Education of Orang Asli Terengganu
	IC 147	Developing design and construction of backspin serving skill tests to assess the learning outcomes of Table Tennis Serving
15:00 - 15:30	Coffee Break	
15:30 - 17:00	Session : Business (Session Chair:)	
	IC 103	The Opportunities and Strengths of Thailand's MICE Industry
	IC 107	Mapping and Marketing Accessibility of SME Clustering Which Specialize in Local Food Product in Banten Province
	IC 111	Web Based Catering Marketplace Business Plan: Cateringku.com
	IC 112	Practice of mobile guide and learning system by GPS positioning technology
	IC 117	Calculation Method Of Critical Values of Financial Indicators or The Purpose of Developing A Food Security Strategy
	IC 120	Russian partnership banking integration in Islamic financial system
	IC 127	Analysis of the innovation cluster formation in the developed industrial countries
	IC 130	The approach to the building of programmer competency model in Russia
	IC 132	Organizational behavior norms as a factor boosting the emotional stability of staff at housing and utility services enterprises
	IC 134	Differentiation of incomes of Russian citizens

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	IC 145	Patron-Client on Orang Asli in Economic Development at Terengganu
	IC 146	The Assessment of the Quality of Language Education of Future Kindergarten Teachers
	IC 148	MAPPING APPLICATION (GEOTAGGING) ON ADMINISTRATION ACTIVITIES OF TAX PAYERS
	IC 149	MARKETING MANAGEMENT OF MADRASAH IBTIDAIYAH (MI)
	IC 150	The Russian Federation's National Guard Officer Training Priorities on information security
	IC 151	Lokananta Music Archive as the Embodiment of Indonesian Collective Memory
	IC 177	TYPOLOGY OF REGIONS ACCORDING TO THEIR STRUCTURAL INVESTMENT TYPE AND ECONOMIC DYNAMICS
	IC 178	Psychopathologic polymorphism in substance abuse
	IC 179	Aggressive potential in psychotic disorders and the evolution of schizoaffective disorders in conditions of imprisonment
	IC 180	Competitive Strategy Model: An Empirical Study of Indonesian Regional Development Banks
19:00 - 21:00	Gala Dinner and Bali Hospitality	

Day 2: 23 July 2017		
08:30 - 09:00	Registration Continues - Coffee and Snacks Time	
09:00 - 09:10	Opening by General Chair	
09:10- 10:00	Keynote Speaker 3 : Sasan Adibi Ph.D (Deakin University, Australia)	
10: 00 - 10:15	Coffee Break	
10:15 - 12:00	Session : : Intelligent System 2 (IS 2) (Session Chair:)	
	IC 113	Mathematical Models for the Spread of Rumors: A Review
	IS 102	Researchgate Data Analysis To Measure The Strength Of Indonesian Research
	IS 106	THERMODYNAMIC ANALYSIS WITH SOFTWARE: CASE STUDY OF UPGRADING RARE EARTH ELEMENTS CONTENT IN BANGKA TIN SLAG
	IS 107	Enhanced Design for DNS Malicious Traffic Analysis
	IS 108	Infrasonic Filter Design Infinite Impulse Response For Detecting Fetal Heartbeats
	IS 109	SIMULATION OF MAGNETIC FIELD DENSITY IN SOLENOID GENERATED BY CURRENT OF PHOTOVOLTAIC MODULE BASED ON SOLAR IRRADIANCE AND TEMPERATURE
	IS 104	TO BUY MORE OR LESS: BUSINESS INTELLIGENCE AND ANALYTICS OF CHINESE TOURISTS' SHOPPING BEHAVIORS IN TAIWAN
	IS 105	IS THE WORLD FLAT? CRITICAL TESTS OF CULTURE THEORIES' EXPLANATIONS OF INTERNATIONAL TRAVEL
12:00 - 13:30	Lunch Break	
13:00 - 16:00	Session : : Intelligent System 3 (IS 3) (Session Chair:)	
	II 101	Analysis of social epidemic phenomena on Social Media using social physics approach
	IS 110	ANALYSIS OF AC VOLTAGE AND CURRENT WAVEFORM DISTORTION ON SPWM TRANSFORMERLESS PHOTOVOLTAIC INVERTER
	IS 111	OPTIMUM SIZING OF PHOTOVLTAIC POWERED UNINTERAPTABLE POWER SUPPLY SYSTEM
	IS 112	ANALYSIS OF AC VOLTAGE WAVEFORM ON CHANGE OVER OF TRANSFER SWITCH ON PHOTOVOLTAIC POWERED UNINTERRUPTABLE POWER SUPPLY SYSTEM
	IS 113	Development of Intelligent Bedding System
	IS 114	SBONTO: ONTOLOGY OF SMART BUILDING

	IS 116	Star Patch Antenna for ISM Band Applications
	IS 117	STROKE999 FOR QUICK STROKE SCREENING
	IS 118	DEVELOPMENT OF RETINA-BASED SECURITY SYSTEM IN ANDROID SMARTPHONE
	IS 119	The role of object signifier in designing interface for multitouch tabletop display
	IS 120	Preliminary Evaluation of User Experience (UX) Questionnaire for Multi-touch Tabletop Systems
	IS 121	Bluetooth Low Energy And Wireless Lan For Indoor Position System
	IS 122	Compressive Sensing on Electrical Capacitance Volume Tomography Static Imaging: The Gap Between Theory and its Implementation
	IS 123	Development and Performance Analysis for High-Quality Discrete Time Chaos Random Number Generator Using LFSR and Threshold-Based Hash Function
	IS 124	EFFECT OF THE AIR GAP ECCENTRICITY ON COGGING TORQUE REDUCTION BY PERFORMING ANTI-NOTCH METHOD
	IS 125	Lung field segmentation in chest radiograph using hand-crafted and deeply-learned features
	IS 102	Applying Fuzzy Logic Rules to Predict Computer Attacks on Honeynets
	IS 103	A fuzzy logic model based on Web of Trust to access Linked Open Data resource
16:00 - 16:15	Coffee Break	
16:15 - 17:00	Best Paper Award - Photo Session - Closing	
19:00 - 20:00	Dinner	

Conference Location and Venue

Welcome to The Patra Bali Resort & Villas

The Patra Bali Resort & Villas offers serene sophistication that eludes formality. A mere 5 minutes from The Bali International Airport, this restful beachfront retreat set within a serene tropical landscape. The property is the largest of its kind in the Kuta area and has in the past been honored to host an extensive guest list of international dignitaries and heads of state. One of the favorite choice of Five Star Hotel amongst Kuta either for Traveler, Business or Incentive purpose.

This tranquil resort of enchanted tropical garden and winding bicycle paths is a one-of-a-kind hideaway known, quite simply, as the finest resort in South Kuta Beach.



[The Patra Bali Resort & Villas](#)

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