The 2nd International Conference on Internet Services Technology and Information Engineering 2014 (ISTIE 2014)
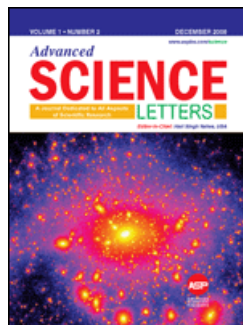
Instructions for Presenters

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 Speaker

Mohan Kankanhalli
National University of Singapore

Title:
Computational Multimedia Advertisement

Abstract:

Advertising is increasing in the online world. Banner ads are popular on publishing websites and video advertising is becoming common in video delivery services like YouTube. Online advertising aims to insert relevant ads in an efficient and non-intrusive way so as to attract consumers' attention. We describe our current work on two problems in this area. We first describe an in-stream video advertising strategy which can be an alternative to the existing pre-roll/post-roll placement. Emotions play a major role in influencing the buying behavior of users and hence we propose a video advertising strategy which takes into account the affective impact of the videos as well as advertisements.

Second, we present a web-page advertisement selection strategy based on a force model. It refines the results of contextual advertisement selection by introducing aesthetic criteria. The web page is semantically segmented into blocks, and each block is an element of the two-dimensional screen. Aesthetic theories about the screen balancing are adopted in the proposed method. The aesthetically optimal advertisement is the one that balances the force system. The talk will end with some open problems in the area of computational multimedia advertisement.

Biography:

Mohan Kankanhalli is a Professor at the Department of Computer Science of the National University of Singapore. He is also the Vice Provost for Graduate Education at NUS. Before becoming the Vice Provost in 2014, he was the Associate Provost (Graduate Education) during 2011-2013. Earlier, he was the Vice-Dean for Academic Affairs & Graduate Studies at the NUS School of Computing during 2008-2010 and Vice-Dean for Research during 2001-2007. Mohan obtained his BTech from IIT Kharagpur and MS & PhD from the Rensselaer Polytechnic Institute.

His current research interests are in Multimedia Systems (content processing, retrieval) and Multimedia Security (surveillance and privacy). He has been awarded a S$10M grant by Singapore's National Research Foundation to set up the Centre for "Sensor-enhanced Social Media" (sesame.comp.nus.edu.sg).

Mohan is actively involved in organizing of many major conferences in the area of Multimedia. He was the Technical Program Co-Chair for ICMR 2014. He was the Director of Conferences for ACM SIG Multimedia during 2009-2013. He is on the editorial boards of several journals including the ACM Transactions on Multimedia Computing, Communications, and Applications, Springer Multimedia Systems Journal, Pattern Recognition Journal and Multimedia Tools & Applications Journal. He is a Fellow of IEEE.

Prof Suhono Harso Supangkat
Professor, Bandung Institute of Technology (ITB)
Head of Research and Development for Inovation anf Enterpreneuship, ITB
Special Adviser to the Minister of MCIT, Indonesia

Biography:

Dr Suhono, was born in Yogyakarta Indonesia, 3 December 1963. He received the B.S from Department of Electrical Eng. Bandung Institute of Technology (ITB) Indonesia in 1986 , MS degree from Department of Electrical Engineering Meisei University Japan in 1994 and holds Dr. of Engineering from Graduate School of Information System the University of Electro-Communication Tokyo Japan in 1998. From 1998-2002, he was secretary of Electrical Eng Department Bandung Institute of Technology. During 2002-2006, he was coordinator program on Graduate School of Information Technology in ITB.

Beside as a lecture in ITB since 2000 he assist some Government activities and industries, especially on Regulations and IT Governance. Since 2007 till know he is appointed as Special Advisor to the Minister of Communication and Information Technology, Republic of Indonesia.

He is chairman of national task force on ICT Governance. His research interest is in IT Assurance, IT Architecture and its related.

The 2nd International Conference on Internet Services Technology and Information Engineering 2014 (ISTIE 2014)

The 2nd International Conference on Science and Engineering in Biology, Medical and Public Health 2014 (BioMedPub 2014)

Conference Program

Notes/Session ID

Day 0: 30 May 2014		
16:30 - 19:00	Registration Starts (available for 3 days)	
Day 1: 31 Nay 2014		
07:30 - 08:30	Registration	
08:30 - 09:00	Opening by General Chair & "Opening Dance	
09:00 - 09:45	Keynote Speaker : Prof. Mohan Kankanhalli, Ph.D., FIEEE	
09:45 - 10:30	Keynote Speaker : Prof Suhono Harso Supangkat, Ph.D	
10:30 - 11:00	**Coffee Break**	
11:00 - 12:00	**Sessions: Internet Technology 1 ( )**	
Kertagosa	101	Toward a Trend-based Web Page Rank by using Big Data on Smartphones
	111	Secure Mutual Authentication and Key Agreement Protocol for IP Multimedia Server-Client
	113	Correlation Coefficient for energy monitoring based on human activity in the Office Room
	114	Energy Monitoring System in Common Room based on Human Behavior in Malaysia
	115	DEA-based index to measure the progress of the e-service society in Europe
11:00 - 12:00	**Sessions: Internet Technology 1( )**	
Nusa Penida 1	116	Subjective judgment, cognitive style and ecommerce website evaluation: a non-parametric approach
	117	Context awareness and location
	150	The Process of Incorporating Online Collaborative Learning: An Analysis of Malaysian Tertiary ICT Educators' Perceptions
	151	Enhancement of Student Motivation in Learning through BLOSSOMS Video Activity
	154	Model for Improving National Productivity in India using E-commerce and M-commerce Based Practices
11:00 - 12:00	**Sessions: Software Technology 1 ( )**	
Nusa Penida 2	175	High Performance Large Sparse PDEs with Parabolic and Elliptic types using AGE Method on DPCS
	180	High Speed Computation of Muscle Stress Problem using Crack Propagation modelling on DPCS platform
	177	Image Segmentation of Repetitive Patterns: A Review
	179	The Integrated Software Visualization Model to Support Novices' Program Comprehension

	181	Performance of Meta-heuristic Techniques in Freeman Chain Code (FCC) Extraction for Handwritten Character Recognition
12;00 - 13:00	**Lunch Break**	
13:00 - 15:00	Sessions: **Medical Sciences ( )**	
Kertagosa	101	Raman spectroscopy for monitoring $⟦CO⟧_2$ effects on fatty acid synthesis of microalgal marine diatom Thalassiosira pseudonana
	102	Mapping and Imaging the distribution of Phosphate within Omentum Tumor
	104	Raman spectroscopy in studies on live cells and tissues
	105	Free Labeling Diagnostic for Biochemical Changing of Pancreatic Cancer Cell Treated by Caffeine
	109	Comparisons of ECVT and Ultrasonography for Breast Cancer Detection
	112	High School and Medical School: Are the Performances Correlated?
	115	Micro-plasma device for wound tissues healing
	117	Implementation HIV-AIDS Prevention and Treatment Program in South Sumatera, Indonesia
	119	KNOWLEDGE AND HISTORY OF NON COMMUNICABLE DISEASES AMONG HOUSEWIVES IN THE YEAR 2013 OGAN ILIR
	126	The Optimal Release Strategy of Wolbachia Infected Mosquitoes to Control Dengue Disease
13:00 - 15:00	Sessions: **Telecommunication Technology 1 ( )**	
Nusa Penida 1	205	Adaptive Principle component Analysis Based Recursive Analysis for Artificial Analysis EEG Signals
	140	A Wireless System and Embedded Sensors on Spindle Rotating Tool for Condition Monitoring
	146	Pollution Instrumentation Using GPS and Data Logger Based-on Propeller
	149	Comparative Analysis of Compact Defected Microstrip Structure (DMS) with Band-Reject Characteristics
	161	Extension of NS2 Framework for Wireless Sensor Network
	166	On Measuring Business Value of RFID Technology on Logistics Service
	178	A Survey Paper on Spray-and-Wait Routing Protocol
	195	GeoSpatial Content for Smartphone
	196	Improved Location and Positioning In WiMAX Networks with Virtual MIMO Base Stations
	198	CALL CENTER TECHNOLOGY AND INTERACTIVE VOICE RESPONSE BASED VOIP
13:00 - 15:00	Sessions: **Software Technology 2 ()**	
Nusa Penida 2	182	Support Vector Machine (SVM) in Handwritten Character Recognition using Freeman Chain Code (FCC)
	183	Trend in Case-Based Reasoning in Diagnose Chronic Disease: A Systematic Literature Review
	185	The Application of Multi Layer Feed Forward Artificial Neural Network for Learning Style Identification
	186	A Review of Barriers in Adopting Healthcare Information System
	187	Therapeutics Approach in Microenterprise E-Business System: The SOAPHIE Method
	188	Data Quality Mining Implementation on Sistem Operasi Terpadu (SOT) Data
	189	Optimization of Pre-processing of Extensive Projects in GIS
	190	Multi-Criterial Analysis Based on Comparison with Etalon
	192	Enhanced Endocardial Boundary Detection in Echocardiography Images using B-Spline and Statistical Method
	197	Software Engineering Challenges in Multi Platform Mobile Application Development
15:00 - 15:30	**Coffee Break**	
15:30 - 17:30	Session : **Software Technology 3 ()**	

Kertagosa	228	**Preserving Privacy for Mobile Ad-Hoc Network Emergency Services via Heterogeneous Access Control Model**
	108	**Comparison of CST and Custom Build Program for Scattering Transmission Application**
	118	**Development of Resistive RAM Simulation Model for Defect Analysis and Testing**
	136	**Dynamic Interaction Network to Model Co-integration in IDX Leading Stocks**
	142	**Factors Affecting on Security Perception in online purchase intention**
	144	**Application of Genetic Algorithm for the Optimization of Energy Saving Glass Coating Structure Design**
	147	**E-learning Model for Mastery Learning Based on GFLM**
	148	**Comparative Study: The Implementation of Machine Learning Method for Sentiment Analysis in Social Media. A Recommendation for Future Research**
	156	**Controlling Algorithm for Energy-Consumption, Radio Bandwidth and Signal Strength Deploying Single Fitness Function to Solve Coverage Area Problems**
	250	**Development of an Online Dental Consultation System**
	158	**HTML Format Tables Extraction with Differentiating Cell Content as Property Name**
15:30 - 17:30		**Session : Software Technology 3 ()**
Nusa Penida 1	162	**Designing of Cham font for Windows and Macintosh operation systems**
	164	**A Comparison Framework of Classification Models for Software Defect Prediction**
	165	**Neural Network Parameter Optimization Based on Genetic Algorithm for Software Defect Prediction**
	167	**Geometrical-Invariant Grid-Based Color Moment (GBCM) for Plant Identification**
	168	**Multi-Camera View Synthesis Based on Depth Image Layer Separation (DILS) Algorithm**
	169	**An Endosymbiotic Evolutionary Algorithm for Designing Hub and Spoke Network with Asymmetric Allocation**
	171	**FPGA Based Maximum Power Point Tracking of Photovoltaic System using Perturb and Observe Method during Shading Condition**
	172	**Development of PC Based Fuzzy Logic Controller for DC Motor**
	173	**Texture Classification Using Random Forest**
	122	**Power Quality and EMI Noise Problems of Fluorescent Lamp System to Control Systems**
	125	**Side Effect of Computer Systems on Power Quality to Control System**
	174	**Generating Data Recovery Keys Using Chinese Remainder Theorem**
15:30 - 17:30		**Session : Software Technology 3**
Nusa Penida 2	198	**CALL CENTER TECHNOLOGY AND INTERACTIVE VOICE RESPONSE BASED VOIP**
	202	**Model of Inbound AEC Tourists in Thailand by Using Twining of Feature selection and Classification Algorithms**
	210	**Vehicle Tracking through Location Prediction and Feature Similarity in Traffic Video Streams**
	214	**Multi-Sensor Fusion Based Effective Obstacle Avoidance and Path-Following Technology**
	224	**Green IT Implementation Strategy: Development of a Tracking Indicator**
	226	**Decision Support System for Agricultural Appraisal in Dryland Areas**
	233	**Time Frame Selection Based Feature Extraction for Fire Detection in Video Surveillance**
	241	**Design of an Integrity Homecare Application for Self-physical Rehabilitations**
	244	**The Role of ICT Sectors in Indonesian National Economy from 1990 through 2008: An Analysis Using Input-Output Approach**
	243	**SSL-HEARTBLEED BUG**
	221	**IT Strategy Alignment in Bina Darma University using IT Balanced Scorecard Framework**
	256	**A Hybrid Computational Intelligence Computing for the Hub Location-Routing Problem**
18:30 - 20:00		**Bali Hospitality & Gala Dinner**

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<mark>The 2nd International Conference on Science and Engineering in Biology, Medical and Public Health 2014 (BioMedPub 2014)</mark>

Conference Program

Notes/Session ID

Day 2: 01 June 2014

07:30 - 08:30	Registration
08:30 - 09:15	Keynote Speaker : Prof. Ying-Hen Hsieh, Ph.D
09:15 - 10:00	Keynote Speaker : Prof. Dr. Sasan Adibi
10:00 - 10:30	**Coffee Break**
10:30 - 12:00	Sessions: **Internet Technology 2** ( )

Kertagosa	170	Design and Implementation of Web-Based Paddy Crop Management System Based on Open Source Tools and Web Service Technologies
	184	Information Privacy Concerns in the Use of Social Media among Healthcare Practitioners: A Systematic Literature Review
	191	Blended Learning: The Evaluation Studies
	194	Evaluation of Students' Knowledge on Information Security at Technical and Vocational Training Corporation in Saudi Arabia
	204	STUDY ON THE RELUCTANCE OF ORGANIZATIONS TOWARD IPV6 ADOPTION IN INDONESIA USING BAJNATH'S MODEL
	211	An Efficient Resource Allocation for Infrastructure-as-a-Service in Cloud Computing Environments

11:00 - 12:00	Sessions: **Internet Technology 2** ( )

Nusa Penida 1	220	A Novel Approach to Signal Encryption: Improved Version of Conventional DSSS Scheme
	237	Impact of Functional Test Automation for Web Systems
	238	The Mediating Effect of e-Satisfaction between e-Service Quality and e-Loyalty in Internet Banking
	239	Examining Adoption of Internet Banking among Future Managers and ICT Professionals using UTAUT Model
	245	A Methodology for investigating opportunities for service technologies
	259	A Student Modeling based on Bayesian Network Framework for Characterizing Student Learning Style
	261	Performance Optimization of a Distributed Transcoding System based on Hadoop for Multimedia Streaming Services

12;00 - 13:00	**Lunch Break**
13:00 - 15:00	<mark>Sessions: **BioMedical Engineering** ( )</mark>

<mark>**Kertagosa**</mark>	<mark>106</mark>	<mark>A New Method for Protein Function Prediction using Text-based Features</mark>
	<mark>108</mark>	<mark>Morphology and Watershed Segmentation for Extraction and Detection of Cancer Nodule in Lung CT Scan Image</mark>

	113	**Dynamic Analysis of Facial Expressions on Internet Addiction People**
	116	**bioHealthCloud: A Biometric Worldwide Public Cloud Infrastructure**
	121	**Surface Electromyography Hand Motion Classification Using Time Domain Features and Artificial Neural Network for Real Time Application**
	122	**Implementation of Electromyography Detecting System for Exoskeleton Robot Applications**
	124	**Evaluation of Pattern-Based Quality Indicators Development Framework**
	125	**Geometrical Evaluation of the MRI-Based and CT-Based 3D Knee Bones Model to optimize an ACL reconstruction**
	130	**Development of a Web-based Osteoporosis Detection System through Measuring Thickness of Clavicle Cortex**
	134	**The Effect of Butterfly Pea (Clitoria ternatea L.) Leaf Extract on Alloxan-Induced Diabetic Mice.**
	131	**Integrating NFC Technology with Scheduling Algorithm to Construct the Dynamic Rehabilitation Scheduling Mechanism**
13:00 - 15:00		Sessions: **Telecommunication Technology 2( )**
Nusa Penida 1	198	**CALL CENTER TECHNOLOGY AND INTERACTIVE VOICE RESPONSE BASED VOIP**
	138	Position Control and Optimization Using the Electronic Circuit Module with the Rotary Encoder
	208	**Target Coverage Mechanism for Wireless Mobile Sensor Networks**
	209	**A Barrier Coverage Mechanism in Wireless Mobile Sensor Networks**
	215	**A Royalty Optimization Model for Radio Spectrum Allocation**
	217	**Mobile Robot Obstacle Avoidance Using Potential Field Method**
	218	**Mobile Robot Obstacle avoidance techniques**
	102	**Qiblah Direction: An Android Application**
	234	**Efficiency Energy Consumption in Cloud Computing based on Constant Position Selection Policy in Dynamic VM Consolidation**
	261	**Performance Optimization of a Distributed Transcoding System based on Hadoop for Multimedia Streaming Services**
15:00 - 15:30		**Coffee Break**
15:30 - 17:30		Session : **Software Technology 4**
Kertagosa	263	**ASIC Implementation of Multiplier Free Modified Flipping Architecture for Image Compression**
	265	**FPGA and ASIC implementation of CORDIC using wave-pipelined circuits**
	266	**Implementation of one level and two level 2D-DWT using ASIC**
	254	**FPGA implementation of Multiplier Free Architecture for Image Compression**
	267	**COMPARISON NEURAL NETWORK AND SUPPORT VECTOR MACHINE FOR PRODUCTION QUANTITY PREDICTION**
	268	**Multiple Criteria Decision Making for Indirect Procurement Division on Electronic Auction at Consumer Goods Company in Indonesia**
	269	**Trust in Virtual Team Software Development**
	270	**REST based Architecture for Web Services using UAVs**
	264	**Success model of Internet banking: A conceptual framework**
	258	**An Assessment Model for Government Enterprise Architecture Establishment Phase**
15:30 - 17:30		Sessions: **Telecommunication Technology 3 ( )**
Nusa Penida 1	103	**Design of Rugby Ball Patch Microstrip Antenna with Circle Slot for Ultra Wideband Frequency (UWB)**

	104	Dependable Adaptive Failure Detection
	105	Optimising Interdependent Distributed Environment With Co-Existence Neighbourhood Model
	106	Accurate heading estimation of a vehicle using low-cost GPS only
	109	Tri-band Frequency Selective Surface (FSS) on Hybrid Material
	110	Investigation of Impedance Modeling for Dual Band Frequency Selective Surface (FSS) by using Hybrid Materials
	112	Fusing Data from Multiple Inexpensive GPS and an Electronic Compass to Increase Heading Accuracy in Real Time
	121	Design a Broadband Dual-Polarized Antenna
	127	Design of Antenna with Rectifying Circuit for Low Power Wireless Sensor Network Application
	128	Design of Wideband Monopole Antenna with CPW Feeding Technique
18:30 - 20:00		**Clocing & Dinner Banquet**

Bali Dynasty Resort

Bali Dynasty Resort is a premier beachside resort in South Kuta, renowned for its warm Balinese hospitality. The Resort offers six restaurants, five bars, three swimming pools including a kids pool with its own Kids Water Fun Zone and a dedicated adults only pool, spa, exercise room, beach club, kids' club, teens club, meeting facilities and a complimentary Hospitality Lounge for those early arrivals and late departures.

The unique layout allows for a subtle but effective division between the couple and family market. Couples can enjoy the famous Gracie Kelly's Irish Pub and relax at the adults-only Lazy Pool, while kids enjoy a 56-metre waterslide flowing into their own pool and complimentary entrance to the Enchanted Garden Kids' Club. A wide variety of rooms catering to the family market are available, sleeping up to five people. The resort is located within walking distance of Kuta's nightlife, Waterbom Park and Discovery Shopping Mall and next to the Famous Kuta Beach.

Online Room Booking

As the participant of ISTIE 2014 Conference, we are pleased to inform you that you now can book your room on special rate on line in Bali Dynasty Resort, ISTIE 2014 conference venue. Please contact Ms Ami from the Bali Dynasty Resort at:

events@balidynasty.com to reserve your room in Bali ynasty Resort by mentioning that you are ISTIE 2014 participants.