

Conference Program



Bina Nusantara University,
Jakarta, Island of Java
Indonesia, December 1-3, 2011

Important Notes:

- (1) You may register at any time during the conference.
- (2) The Invoice of payment can be collected at the registration desk at any time.
- (3) The Certificate of Participation can be collected at the registration desk only after your presentation.
- (4) Session chairmen can ask for a special Certificate at the registration desk after the session
- (5) The duration of a presentation slot is 20 minutes for a regular paper and 45 minutes for a plenary speech, including questions.
- (6) All authors should give their biographies to the chairmen before the beginning of the session.
- (7) Authors can upload their presentations to the available computers 10 minutes before the beginning of their session.

**10th WSEAS International Conference on
Computational Intelligence, Man-Machine Systems
and Cybernetics (CIMMACS '11)**

**10th WSEAS International Conference on E-Activities
(E-ACTIVITIES '11)**

**10th WSEAS International Conference on Information
Security and Privacy (ISP '11)**

*Bina Nusantara University,
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Indonesia, December 1-3, 2011*

The WSEAS staff welcome you to another prestigious event.

Since 1996, the World Scientific and Engineering Academy and Society has proudly organized a vast number of successful conferences and published the work of hundreds of scientists from all over the world. We would like to express our sincere gratitude to you for helping us continue our mission by honoring us with your presence in this conference.

WSEAS publications have succeeded in joining most important International Scientific Indexes and Libraries. Thanks to our latest efforts of adopting strict deadlines and a more rigorous review process, the quality of our proceedings and journals is continuing to rise exponentially.

We trust that you will enjoy discussing the latest scientific developments with your peers during these three days, and that you will find your stay as pleasant as possible.

The WSEAS Team

Thursday December 1st 2011

Venue: Auditorium (4th floor)

Registration: 08:00-08:45

BiNus University Profile and Welcome Dance: 08:45-09:00

National Anthem: 09:00-09:05

Silent Prayer: 09:05-09:10

Opening Speech by Conference Chair Dr. Ford Lumban Gaol: 09:10-09:20

Welcome Speech by BiNus University Rector Prof. Dr. Ir. Harjanto Prabowo: 09:20-09:30

Inaugural Speech by CEO of Bina Nusantara A Group Ir. Bernard Gunawan: 09:30-09:40

Unveiling the WSEAS proceedings by Ir. Bernard Gunawan: 09:40-09:45

Photo Sessions: 09:45-10:00

Time: 10:00-10:45

Plenary Lecture 1



Computer-Aided Adaptive Camouflage

by Prof. Jiri F. Urbanek, University of Defence, CZECH REPUBLIC.

Time: 10:45-11:30

Plenary Lecture 2



**Developments and Applications of Adaptive Cerebellar Model
Articulation Controllers**

by Prof. Chih-Min Lin, Yuan Ze University, TAIWAN.

Thursday December 1st 2011

Venue: Lounge (8th Floor)

Tea Break: 11:30-12:00

Venue: Room 821

Time: 11:30-13:30

CIMMACS Session: Man-Machine Systems

Chair: Robert Pucher, Yongwimon Lenbury

Teaching with Projects Increases the Intrinsic Motivation to Learn - The RoboCup Project	Robert Pucher, Alexander Hofmann	668-291
A Stochastic Differential Equation Model of the Signal Transduction Process Involving G-Protein Coupled Receptors	Din Prathumwan, Yongwimon Lenbury, Pairote Satiracoo	668-143
Visual Indicator and Software Metric Formula to Determine Class Cohesion Problem and Software Design Quality	Djon Irwanto	668-148
Possibilities of Effectiveness Increasing of Some Fire Control Preparation Measurements in the Field Artillery of the Czech Republic Army	K. Silinger, M. Blaha	668-134
IT Blueprint and School	Maria Seraphina Astriani, Satrio Pradono	668-257
Determination of Final Ammunition Consumption	Martin Blaha, Katerina Brabcova	668-146

Thursday December 1st 2011

Venue: Room 823

Time: 11:30-13:30

E-ACTIVITIES Session: Advances on E-Learning I

Chair: Jiri Hospodka, Nor Fariza Mohd Nor

Students Learning Information Skills in Communities of Practice	Aidah Abdul Karim, Rosseni Din, Parilah M. Shah	668-088
Learners' Evaluation of an e-Learning Material	Rashidah Rahamat, Parilah M. Shah, Rosseni Din, Sharifah Nor Puteh, Juhaida Abd. Aziz, Mohamed Amin Embi	668-089
Observation on the Deaf Students' Interaction in Learning ICT-Courses	Rozniza Zaharudin, Norazah Mohd Nordin, Mohd Hanafi M Yasin, Rosseni Din, M. A. Embi	668-083
Exploring Teachers' Insight on ICT Education via E-Learning for the Deaf Learners	Rozniza Zaharudin, Norazah Mohd Nordin, Mohd Hanafi Mohd Yasin, Rosseni Din, Mohamed Amin Embi	668-084
Special Web-based Application for Electric Circuit Analysis	Jiri Hospodka, Matej Koubik	668-130
Developing and Transforming Telecenters as e-learning Training Centers for the Community: The Malaysian Experience	Nor Fariza Mohd Nor, Norizan Abdul Razak, Jalaluddin Abdul Malek	668-427

Venue: Lounge (8th Floor)

Lunch Break: 13:30-14:30

Venue: Room 821

Time: 14:30-16:30

E-ACTIVITIES Session: E-Activities and Health Care

Chair: Nor Shahriza Abdul Karim, Bens Pardamean

Application of E-Learning System to Remote International Nursing Conference and Lecture	Takuri Takahashi, Hidetoshi Wakamatsu, Mitsue Maru, Rumi Maeda	668-098
Information System Model for Disease Management at a Consumer Electronics Manufacturer	Bens Pardamean, Anjela Greizaria Djoeng, Nana Rosanna Tobing	668-144
E-Medical Checkup at the Naval Health Departments and Hospitals in Developing Countries	Bens Pardamean, Leli Setyaningrum, Shirley Louis	668-132
A Framework for Electronic Health Record (EHR) Implementation Impact on System Service Quality and Individual Performance among Healthcare Practitioners	Nor Shahriza Abdul Karim, Maznah Ahmad, Norshidah Mohamed	668-289
Integrated Model of Cloud-Based E-Medical Record for Health Care Organizations	Bens Pardamean, Rizal Ricky Rumanda	668-137
An Intelligent Relief Approach for Emergency Services by using Biological Endocrine System	A. M. Riad, Hazem M. El-Bakry, Gamal H. El-Adl	668-128

Thursday December 1st 2011

Venue: Lounge (8th Floor)

Tea Break: 16:30-17:00

Friday, December 2nd 2011

Venue: Auditorium (4th floor)

Time: 09:00-09:45

Plenary Lecture 3



A Technique for Diagnosing Abnormalities in Intermittent Sound Emission Mechanisms Based on Dynamic Programming Matching
by Prof. Teruji Sekozawa, Kanagawa University, JAPAN.

Time: 09:45-10:30

Plenary Lecture 4



Impact of International Accounting Harmonization on National Legislature (European Level)
by Prof. Jiri Strouhal, University of Economics Prague, CZECH REPUBLIC.

Venue: Lounge (8th Floor)

Tea Break: 10:30-11:00

Venue: Room 821

Time: 11:00-13:00

E-ACTIVITIES Session: E-Activities and Applications

Chair: Raymondus Kosala, Jalaluddin Abdul Malek

e-Activities for At Risk Youths in Malaysia	Norizan Abdul Razak, Nadzrah Abu Bakar, Hasnah Toran, Nor Fariza Mohd Nor, Jalaluddin Abdul Malek	668-079
Application of Artificial Neural Networks To Predict Intraday Trading Signals	Eddy F. Putra, Raymondus Kosala	668-141
Post Intelligent City Development and Hyperrealism of E-Community	Jalaluddin Abdul Malek, Norizan Abdul Razak, Noor Fariza Mohd Noor	668-435
A New Developed DSS Framework for Complicated Services of E-Government	A. M. Riad, Hazem M. El-Bakry, Gamal H. El-Adl	668-127
Increasing the Trustworthiness of e-Voting Systems using Smart Cards and Digital Certificates – Kosovo Case	Blerim Rexha, Ramadan Dervishi, Vehbi Neziri	668-379

Friday, December 2nd 2011

Venue: Room 823

Time: 11:00-13:30

ISP Session: Advances on Information Security

Chair: Musa Mailah, Teddy Mantoro

Secure Mobile Transaction Using NFC Technology: Top-Up Printing System	Teddy Mantoro, Media A. Ayu, Goenawan Brotosaputro, Nur F. Ain, Noorzalina Ghazali	668-081
Role Based Access Control for Knowledge Sharing in Remote Areas	Wendi Usino, Teddy Mantoro, Media A. Ayu , Nazir Harjanto	668-080
Defects Detection of Cylindrical Object's Surface using Vision System	M. Ali, M. Mailah, S. Kazi, H. H. Tang	668-432
Experimental Implementation of Active Force Control and Iterative Learning Technique to A Two-link Arm Driven by Penumatic Artificial Muscles	M. Mailah, H. H. Mun, S. Kazi, H. Jahanabadi	668-431
Enhancement of Video Encryption Algorithm Performance using Finite Field Z23-based Chaotic Cipher and by Integrating Discrete Cosine Transform and Quantization Process	Suryadi, B. Budiardjo, K. Ramli	668-280
Collision Risk Simulator: A Safety Assessment Tool	Irwan Premiramanda, Moeljono Widjaja	668-245
Measuring The Implementation of IT Risk Analysis in Commercial Bank Based on Best Practice (a Case Study)	Dewi Puspasari, M. Kasfu M. Sattar, Rein Nusa	668-288
Interleaving Command Sequences: A Threat to Secure Smartcard Interoperability	Maurizio Talamo, Maulahikmah Galinium, Christian H. Schunck, Franco Arcieri	668-138

Venue: Lounge (8th Floor)

Lunch Break: 13:30-14:30

Friday, December 2nd 2011

Venue: Room 823

Time: 14:30-16:30

CIMMACS Session: Applications of Computational Intelligence

Chair: Jiri Urbanek, Antonio Prado

Nutrition Management System at a Consumer Electronics Manufacturer	Bens Pardamean, Kikied Ario Wibisono, Hermy Santoso Halim	668-247
Computer-Aided Adaptive Camouflage	Jiri F. Urbanek	668-150
Orbital Characteristics due to the Three Dimensional Swing-By in the Sun-Jupiter System	Jorge K. S. Formiga, Antonio F. B. A. Prado	668-120
Algorithm of Feature Estimation for Real Time Objects Detection in Thermal Images	Snejana Pleshkova	668-429
Thermo Vision System with Embedded Digital Signal Processor for Real Time Objects Detection	Snejana Pleshkova, Alexander Bekiarski	668-153

Venue: Lounge (8th Floor)

Tea Break: 16:30-17:00

Venue: Binus Exhibition Hall (3rd Floor)

Conference Banquet: 19:00

Saturday, December 3rd 2011

Venue: Room 821

Time: 09:00-11:00

CIMMACS Session: Latest Trends in Computational Intelligence

Chair: Ingrid Christiani, Suharjito

Extraction of Patterns from a Hippocampal Network Using Chaotic Recall	Motonobu Hattori	668-092
Attribute Exploration of Many-Valued Context with SAT	Taufiq Hidayat	668-093
Comparative Analysis between Verieye's and Libor Masek's Algorithm in Iris Recognition	Ingrid Christiani, Benny Senjaya, Bens Pardamean	668-248
Autonomous Intelligent Simulation Model based on CGF for Military Training and Analysis	SeongKee Lee, ChanGon Yoo, JungChan Park, JaeHyun Park, HaengHo Lee, WooMin Lee, ChangMin Chung	668-147
Intelligent Decision Support System Modelling for Agri-Supply Chain Risk Balancing on Price Determination	Suharjito, Machfud, Sukardi, Bambang Haryanto, Marimin	668-133

Venue: Room 823

Time: 09:00-10:30

E-ACTIVITIES Session: Applications on Business and Economics

Chair: Idris Gautama So, Jiri Strouhal

Analysis of the Financial Crisis Effect on Company Mergers	Jaroslav Sedlacek, Alois Konecny, Petr Valouch	668-099
Information Systems Strategic Planning on Bank Merger (Case Study at Bank U)	Alvin Ega Satria, Idris Gautama So	668-428
Impact of International Accounting Harmonization on National Legislature (Czech Level)	Jiri Strouhal	668-279
Czech Accounting Board's Interpretations of Selected Accounting Issues: Some Source of E-Methodology for SMEs	Jiri Strouhal, Libuse Mullerova, Jirina Boksova, Marie Pasekova	668-140

Venue: Lounge (8th Floor)

Tea Break: 11:00-11:30

Saturday, December 3rd 2011

Venue: Room 821

Time: 11:30-13:30

E-ACTIVITIES Session: Advances on E-Learning II

Chair: Bens Pardamean, Azura Omar

Design of 3D Virtual World as a Media of E-Learning	Bens Pardamean, Alif Wijayakusumah, Nilo Legowo	668-139
The Effect of Logo Programming Language for Creativity and Problem Solving	Bens Pardamean, Evelin, Honni	668-135
Acceptance of Blog Technology in e-Business Course	Bens Pardamean, Mario Susanto, Harisno	668-145
Evaluating the Effectiveness of E-Learning in Language Classrooms	Maslawati Mohamad, Azura Omar, Supyan Hussin, Zaini Amir	668-101
Innovation Using Rasch Model Approach In Measuring Multiple Intelligences	Mohd Kashfi Mohd Jailani, Rosseni Din, Siti Rahayah Ariffin, Sarimah Mokhtar, Mohamed Amin Embi	668-290

Venue: Lounge (8th Floor)

Lunch Break: 13:30-14:30

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