

The 6th International Conference on Social and Organizational Informatics and Cybernetics: SOIC 2010

in the context of
The 4th International Multi-Conference on Society, Cybernetics and Informatics:
IMSCI 2010

June 29th - July 2nd, 2010 – Orlando, Florida, USA

TUESDAY, JUNE 29, 2010

(9:00:00 AM - 12:00:00 PM)

Registration

Room ZC

(1:00:00 PM - 6:00:00 PM)


Registration

Room ZC


**WEDNESDAY, JUNE 30,
2010**


(10:10:00 AM - 12:10:00 PM)


 [Nano-Bio Integrated System on System \(SoS\) Design Domain and Technologies \(WMSCI\)](#)
0000024

 [Concepts, Principles, Methodologies, Ethics, Cybernetics and Informatics \(WMSCI\)](#)


 [Knowledge Generation, Communication and Management I \(KGCM\)](#)


 [Science 2 and Expansion of Science I \(S2ES\)](#)


 [Information Systems, Technologies and Applications \(WMSCI\)](#)

 [Transforming Assessment in Education Implementing the Instructional Decision Support System of the AEFIS Solution](#)

(1:10:00 PM - 3:40:00 PM)


 [Human Information Systems \(WMSCI\)](#)

 [Control Systems, Technologies and Applications I \(WMSCI\)](#)

 [Management, Engineering and Informatics \(MEI\)](#)


 [Biomedical Engineering \(BMIC\)](#)
0000013


 [Technological Development and Innovation I \(IMETI\)](#)

 [Energy Engineering, Economics and Policy \(EEEP\)](#)


(4:00:00 PM - 6:30:00 PM)

 [Information Systems Development I \(WMSCI\)](#)

 [Optical Systems, Technologies and Applications / Image and Speech Processing \(WMSCI\)](#)

 [Communication and Network Systems, Technologies and Applications \(WMSCI\)](#)

 [Knowledge Generation, Communication and Management II \(KGCM\)](#)

 [Engineering Concepts, Relations and Methodologies I \(IMETI\)](#)


 [Disciplinary Research and Development I \(IMETI\)](#)

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
[Platform](#) (EISTA)
0000019

 [Applications of Information and Communication Technologies in Education and Training](#) (EISTA)


 [Engineering Education and Educational Technologies I](#) (EEET)


 [Optical Engineering and Photonic Technology](#) (OEPT)


 [Computing / Information Systems and Technologies I](#) (CCCT)

 [Information and Computing Technologies / Interdisciplinary Research](#) (CITSA)

 [Society, Cybernetics and Informatics](#) (IMSCI)


 [Relations between Society/Organizations and Cybernetics/Cyber-Technologies](#) (SOIC)

 [Application of Education Technologies I](#) (EISTA)

 [Education in Science, Technology, Engineering and Mathematics I](#) (EISTA)

 [Educational Research, Theories, Practice and Methodologies I](#) (EISTA)

 [Education and Training Systems and Technologies I](#) (EISTA)

 [Applications of Information and Communication Technologies in Education and Training \(Virtual Presentations\)](#) (EISTA)


 [Information and Communication Technologies \(Virtual Presentations\)](#) (WMSCI)


THURSDAY, JULY 01, 2010

(10:10:00 AM - 12:10:00 PM)


(1:10:00 PM - 3:40:00 PM)


(4:00:00 PM - 6:30:00 PM)

 [Information Systems Development II](#) (WMSCI)

 [Computer Science and Engineering I \(WMSCI / MEI\)](#) (WMSCI)

 [Image, Acoustic, Speech and Signal Processing](#) (WMSCI)

 [Control Systems, Technologies and Applications II](#) (WMSCI)

 [Collaborative Knowledge Management - CKM 2010: Inter-Organizational](#)


 [Peer Reviewing I](#) (ISPR)


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[Collaboration, Collaborative
Software Development, and
Knowledge
Management](#) (KGCM)
000014

 [Science 2 and Expansion of
Science II](#) (S2ES)

 [Bio- and Medical Informatics and
Cybernetics I](#) (BMIC)


 [Higher Education](#) (EISTA)


 [Educational Research,
Theories, Practice and
Methodologies II](#) (EISTA)


 [Information and Communication
Technologies \(WMSCI /
RMCI\)](#) (WMSCI)


 [Disciplinary Research and
Development II](#) (IMETI)

 [Disciplinary Research and
Development III](#) (IMETI)


 [Technological Development and
Innovation II](#) (IMETI)


 [Engineering Education and
Educational Technologies /
Applications of ICT in
Education and Training \(EET /
EISTA\)](#) (EET)


 [Optical Engineering and Photonic
Technology / Control Systems,
Technologies and Applications
\(OEPT / CCCT / CITSA\)](#) (OEPT)


 [Communications Systems,
Technologies and Applications](#)
(CCCT)


 [Design and Research in Artificial
and Natural Sciences I](#) (DRANS)


 [Education in Science,
Technology, Engineering and
Mathematics II](#) (EISTA)


 [Politics and Information Systems,
Technologies and
Applications](#) (PISTA)


 [Application of Education
Technologies II](#) (EISTA)

 [Engineering Education and
Educational Technologies /
Applications of ICT in
Education and Training \(EET /
EISTA\)](#) (EISTA)

 [Educational Research, Theories,
Practice and
Methodologies III](#) (EISTA)

 [Engineering Concepts, Relations
and Methodologies \(Virtual
Presentations\)](#) (IMETI)

 [Communication and Network
Systems, Technologies and
Applications \(Virtual
Presentations\)](#) (WMSCI)

 [Peer Reviewing \(Virtual
Presentations\)](#) (ISPR)


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FRIDAY, JULY 02, 2010

(10:10:00 AM - 12:10:00 PM)


 [Human Agent Interaction: Design Theory for Interactive Agents and Robots](#) (WMSCI)
0000009


 [Academic Globalization](#) (AG)


 [Peer Reviewing](#) II (ISPR)


 [Design and Research in Artificial and Natural Sciences](#) II (DRANS)

(1:10:00 PM - 3:40:00 PM)

 [Risk Management and Cyber-Informatics / Management, Engineering and Informatics](#) (RMCI / MEI) (RMCI)


 [Knowledge Generation, Communication and Management](#) III (KGCM)


 [Design and Research in Artificial and Natural Sciences](#) III (DRANS)

 [Science 2 and Expansion of Science S2ES / Academic Globalization \(S2ES / AG\)](#) (S2ES)


 [New Multimedia Technologies for Visual Education and Entertainment](#) (IMSCI)
0000003

 [Disciplinary Research and Development](#) IV (IMETI)


 [Engineering Education and Educational Technologies](#) II (EET)


 [Relations between Society/Organizations and Informatics](#) (SOIC)

(4:00:00 PM - 6:30:00 PM)


 [Applications of Informatics and Cybernetics in Science and Engineering / Systemics](#) (WMSCI)


 [Computer Science and Engineering](#) (WMSCI)


 [Bio- and Medical Informatics and Cybernetics](#) II (BMIC)

 [Science 2 and Expansion of Science](#) III (S2ES)

 [Engineering Concepts, Relations and Methodologies](#) II (IMETI)

 [Hybrid Applications/Systems, Dual Technologies, Cross-Fertilizing Research and Analogical Thinking](#) (CCCT)


 [Information Systems](#) (CITSA)


 [Generative Learning Developed by the Use of Learning Studies Based on Variation Theory - How to Use a Theoretical Tool to Design Powerful Learning Situations](#) (EISTA)
0000001


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 [Educational Research,
Theories, Practice and
Methodologies IV \(EISTA\)](#)


 [Education and Training Systems
and Technologies II \(EISTA\)](#)


 [Politics and Information
Systems, Technologies and
Applications \(Virtual
Presentations\) \(PISTA\)](#)

 [Educational Research, Theories,
Practice and Methodologies \(Virtual
Presentations\) \(EISTA\)](#)

 [Disciplinary Research and
Development \(Virtual
Presentations\) \(IMETI\)](#)

 [Free/Open Source Software /
Computer Science and
Engineering \(Virtual
Presentations\) \(WMSCI\)](#)

 [Information Systems,
Technologies and Applications
\(Virtual
Presentations\) \(WMSCI\)](#)

 [Applications of Informatics and
Cybernetics in Science and
Engineering/Systemics \(Virtual
Presentations\) \(WMSCI\)](#)

Preliminary Papers Presentation Schedule



**TUESDAY,
JUNE 29,
2010**

**9:00:00 AM - Registration
12:00:00 PM (Room: Room ZC)
1:00:00 PM -
6:00:00 PM**

**WEDNESDAY, [Nano-Bio Integrated System on System \(SoS\) Design
Domain and Technologies - Invited Session \(000024\)](#)
JUNE 30,**

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2010 [\(WMSCI\)](#)
10:10 AM - [\(Room: Salon 4\)](#)
12:10 PM **Organizer: Kamran Eshraghian (South Korea)**
 Co-Organizer: Kyoung-Rok Cho (South Korea)

Hong, Yoon-Ki; Kim, Kyo-Tae; Kim, Ye-Gwang; Kim, Yeon-Ho;
Cho, Kyoung-Rok; Cho, Tae Won; You, Younggap; Eshraghian,
Kamran (South Korea): "Three-Dimensional Discrete Wavelet
Transform (DWT) Based on Unary Arithmetic"

Kim, Seung-Youl; Kim, Kyo-Tae; Cho, Kyoung-Rok; Cho, Tae
Won; You, Younggap (South Korea): "Unary Computation for
Biomedical Data"

Kim, Yeon-Ho; Lee, Sang-Jin; Kim, Kyu-Kwan; You, Young-Gap;
Cho, Kyoung-Rok; Cho, Tae-Won; Eshraghian, Kamran (South
Korea): "Asynchronous Cryptographic System: Side Channel
Attacks through Differential Power Analysis (DPA)"

Marui, Tomohiro (Japan): "An Introduction to Micro/Nano-Bubbles
and Their Applications"

**WEDNESDAY, [Concepts, Principles, Methodologies, Ethics, Cybernetics](#)
JUNE 30, [and Informatics \(WMSCI\)](#)
2010 [\(Room: Salon 5\)](#)
10:10 AM - **Co-Chair: Richard S. Segall (United States); Hilary Moore**
12:10 PM **(Canada)****

Dudley, Alfreda; Braman, James; Wang, Yuanqiong; Vincenti,
Giovanni; Tupper, Donna (United States): "Security, Legal, and
Ethical Implications of Using Virtual Worlds"

Gram-Hansen, Sandra Burri (Denmark): "Persuasive Everywhere –
Possibilities and Limitations"

Li, Peng; Xiao, Hui; Kang, Qi; Yan, Yong (China): "Lighting
Energy-Saving Optimization Model and Simulation of Living
Space"

Martín Núñez, José Luis; Vázquez Martínez de Miguel, Ana; Criado
Fernández, Mar (Spain): "The Role of e-Learning in Post Sales
Service. A Customer Loyalty Tool"

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Moore, Hilary *; Ferris, Sharmila **; Adria, Marco * (* Canada, ** United States): "We Are Virtually All on the Same Team: The Effectiveness of Self-Managed Virtual Teams"

Segall, Richard S.; Zhang, Qingyu; Pierce, Ryan M. (United States): "Data Mining Supercomputing with SAS JMP® Genomics"

Vvedensky, Victor (Russian Federation): "Ordered Structure of the Thesaurus of Word Roots of German Language"

**WEDNESDAY, [Knowledge Generation, Communication and Management I \(KGCM\)](#)
JUNE 30, [\(Room: Salon 6\)](#)
2010
10:10 AM - **Co-Chair: Susu Nousala (Australia); Héctor Guerrero**
12:10 PM **(Spain)****

Brigui-Chtioui, Imène; Saad, Inès (France): "A Multiagent Approach for Group Decision Making in Knowledge Management"

Guerrero, Héctor; Martín-Barbero, Susana; Trueba, Frank J. (Spain): "From Information to 'Pre-Cognitive Metadata'. A New Gate to Visual Analytics"

Nousala, Susu *; Jamsai Whyte, Suthida ** (* Australia, ** Thailand): "The Value of Sustainable Knowledge Transfer Methods for SMEs, Utilizing Socio-Technical Networks and Complex Systems"

Pretorius, Agnieta (South Africa): "Prototype of a Knowledge Management Support System for Choosing Intellectual Capital Assessment Methods"

Soltes, Dusan (Slovakia): "Some e-Europe Projects as a Source of Know How on e-Health for Transfer to Africa"

Wu, Shu-Yuan (New Zealand): "Simulate the Knowledge Co-Creation Process for Social Emergence Studies"

**WEDNESDAY, [Science 2 and Expansion of Science I \(S2ES\)](#)
JUNE 30, [\(Room: Salon 7\)](#)
2010
10:10 AM - **Co-Chair: Adam McMahon (United States); Janos Korn**
(United Kingdom)**

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12:10 PM

Fensel, Dieter; Cerri, Davide (Austria): "Why Weren't Ants the First Astronauts?"

Kardos, Martin; Hrbanova, Katarina; Drozdova, Matilda (Slovakia): "Information System's Architectures in the University IS Engineering"

Korn, Janos (United Kingdom): "Turning the Systemic View into Systems Science"

McMahon, Adam; Milenkovic, Victor (United States): "Social Volunteer Computing "

Reyes, Carmen; Paras, Margarita (Mexico): "Geocybernetics and Science 2.0"

Tarabek, Paul *; Tarabek, John ** (* Czech Republic, ** Slovakia): "Cognitive Maps in the Process of Educational Communication"

WEDNESDAY, [Information Systems, Technologies and Applications](#)

JUNE 30,

2010

10:10 AM -

12:10 PM

[\(WMSCI\)](#)

[\(Room: Salon 8\)](#)

Co-Chair: Linda Pennachio (United States); Richard Chiou (United States)

Chiou, Richard *; Kwon, Yongjin (James) **; Tseng, Tzu-Liang (Bill) *; Kizirian, Robin *; Yang, Yueh-Ting * (* United States, ** South Korea): "Real-Time Stereoscopic 3D for e-Robotics Learning"

Hassan, Ahmed; Abu ElSoud, Mohamed; Samaa, Mohammed (Egypt): "Web-Based User Interface for Semantic Information Retrieval"

Meinberg, Uwe; Lorenz, Claudia; Huber, Linda; Papproth, Alf; Stegner, Christian; Hyka, Rüdiger (Germany): "Agent-Based Simulation of Security Related Logistic Processes on Airports"

Munlin, Mud-Armeen (Thailand): "Five-Axis Tool Path

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Optimization Using Rotations and Orientation"

Odongo, Agnes Owuato (Kenya): "Product Line Challenges and
Organization Structuring Critical Success Factors"

Pennachio, Linda (United States): "The Path to Advancement:
Incorporating Teamwork into a Business Communications Course
Promotes Engagement with Technology in Disadvantaged
Populations"

Zaretsky, Esther (Israel): "Improving Spatial Intelligence and
Reading Skills by Developing Mastery of Virtual Activities"

**WEDNESDAY,
JUNE 30,
2010
10:10 AM -
12:10 PM** [Transforming Assessment in Education Implementing the
Instructional Decision Support System of the AEFIS
Solution Platform - Invited Session \(000019\) \(EISTA\)
\(Room: Salon 10\)](#)
**Organizer: Donald McEachron (United States)
Co-Organizer: Mustafa Sualp (United States)**

Alsorook, Metta (United States): "Creating and Sustaining
Change: Assessment of Student Learning Outcomes"

Bach, Craig; Mceachron, Donald (United States): "Drexel
EduApps: Freeing Faculty for Innovative Teaching"

Bach, Craig (United States): "Learning Analytics: Targeting
Instruction, Curricula and Student Support"

Mceachron, Donald; Torres, Antoinette (United States):
"Instructional Decision Support Systems: A New Approach to
Integrating Assessment, Teaching and Learning"

Papazoglou, Elisabeth; Allen, Fred (United States): "An Iterative
Mapping Strategy for Improved Curriculum Design and
Assessment"

**WEDNESDAY, [Applications of Information and Communication
Technologies in Education and Training \(EISTA\)
\(Room: Salon 16\)](#)
JUNE 30,
2010
10:10 AM -
12:10 PM** **Co-Chair: Hitoshi Sasaki (Japan); Craig L. Tidwell (United
States)**

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Al-Sadi, Jehad; Abu-Shawar, Bayan; Sarie, Taleb (Jordan):
"Presenting the LMS as Knowledge Management Base to Extract
Information"

Sasaki, Hitoshi; Saito, Kenta; Mizuno, Kazunori (Japan): "A
Development of a New Flash Card System by Using Interactive
Card Data"

Tidwell, Craig L. (United States): "Measuring the Effect of Using
Simulated Security Awareness Training and Testing on Members
of Virtual Communities of Practice"

**WEDNESDAY,
JUNE 30,
2010
10:10 AM -
12:10 PM**

**[Society, Cybernetics and Informatics \(IMSCI\)](#)
[\(Room: Salon 19\)](#)**

**Co-Chair: Myrna Berríos Pagan (Puerto Rico); Donna D.
Lenaghan (United States)**

Berríos Pagan, Myrna (Puerto Rico): "Comparative Study of the
Use of Extensible Business Reporting Language (XBRL) in Projects
for the Supervision of Banking Institutions"

Lenaghan, Donna D.; Lenaghan, Michael J. (United States):
""Sustainable Glocalization" through Inter-Disciplinary
Appropriated Technologies"

Lund, Øystein (Norway): "Oracle, Meeting Ground or Learning
Community? Teachers' Use and Evaluation of the Web-Based
Guidance Service "Teachers' Forum"

Moise, Maria *; Zingale, Marilena ** (* Romania, ** United
States): "Using Information and Communication Technology to
Improve Citizen Access to e-Government Services"

Sevillano García, María Luisa; Vázquez Cano, Esteban (Spain):
"Information and Information Services in Educational Portals in
Spain"

**WEDNESDAY,
JUNE 30,
2010
10:10 AM -
12:10 PM**

**[Education in Science, Technology, Engineering and
Mathematics I \(EISTA\)](#)
[\(Room: Salon 20\)](#)**

**Co-Chair: Courtney Brown (United States); Mike (Tae-In)
Eom (United States)**

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Brown, Courtney; Russell, Christina; Long, Haiying (United States): "Outcomes of an International Multi-Site Undergraduate Summer STEM Research Program"

Eom, Mike (Tae-In) (United States): "Information Technology (IT) Professionals' Critical Skills Set, its Outcome, and Implications on IT Education"

Ganeshan, Kathiravelu (New Zealand): "Providing an Effective and Efficient Learning Environment: Meeting the Challenges of Multiple Diversities"

Miller, Jaimie L.; Ward, R. Bruce; Sienkiewicz, Frank; Antonucci, Paul (United States): "ITEAMS: An Out-of-School Time Program to Promote Gain in Fundamental Science Content and Enhance Interest in STEM Careers for Middle School Students"

Sardone, Nancy B. (United States): "Developing Information Technology (IT) Fluency in College Students: An Investigation of Learning Environments and Learner Characteristics"

Tahir, Sajjad (United Arab Emirates): "Employment Satisfaction at Higher Education Institutions of Lahore Pakistan"

**WEDNESDAY,
JUNE 30,
2010
1:10 PM -
3:40 PM**

**[Human Information Systems \(WMSCI\)](#)
[\(Room: Salon 4\)](#)**

**Co-Chair: Masahiro Aruga (Japan); Craig M. Vineyard
(United States)**

Aruga, Masahiro; Aruga, Masayuki (Japan): "The Fuzzy and Compartment System Concept for the Communication System Taking Account of the Handicapped Situation"

Moritaka, Atsushi; Nonaka, Hidetoshi; Yamanoi, Takahiro (Japan): "Brain Computer Interface Using EEG on Imaging Direction"

Olivi-Tran, Nathalie (France): "The Role of the Extra Cellular Matrix on Memory"

Vineyard, Craig M.; Taylor, Shawn E.; Bernard, Michael L.; Verzi,

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Stephen J.; Caudell, Thomas P.; Heileman, Greg L.; Watson, Patrick (United States): "A Cortical-Hippocampal Neural Architecture for Episodic Memory with Information Theoretic Model Analysis"

**WEDNESDAY,
JUNE 30,
2010
1:10 PM -
3:40 PM** [Control Systems, Technologies and Applications I \(WMSCI\)](#)
[\(Room: Salon 5\)](#)
**Co-Chair: Roy McCann (United States); Will Shackelford
(United States)**

Ahn, Jae Kook; Jung, Seul (South Korea): "Tele-Operated Control of Inverted Pendulum System for Intelligent Control Education"

Kwon, Koo Hong; Chung, Won Jee; Park, Ki Beom (South Korea): "Application of iSIGHT® for Optimal Tip Design of Complex Tool Holder Spindle"

Le, Anh; McCann, Roy (United States): "Threshold-Event State-Estimation for Cyber-Physical Systems"

Park, Su Seong; Kim, Jae Min; Chung, Won Jee; Shin, O. Chul (South Korea): "Application of Response Surface Method for Optimal Transfer Conditions of MLCC Alignment System"

Shackelford, Will (United States): "Performance Evaluation of the Primitive Mobility Execution of an Automated Guided Vehicle within the Mobility Open Architecture Simulation and Tools Environment"

**WEDNESDAY,
JUNE 30,
2010
1:10 PM -
3:40 PM** [Management, Engineering and Informatics \(MEI\)](#)
[\(Room: Salon 6\)](#)
Co-Chair: Ali Cheaitou (France)

Chang, Dong-Shang; Yang, Fu-Chiang (Taiwan): "Data Envelopment Analysis with Two Distinct Objectives of Inputs or Outputs"

Cheaitou, Ali; van Delft, Christian; Jemai, Zied; Dallery, Yves (France): "A Newsvendor Model with Initial Inventory and Two

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Salvage Opportunities"

Miyashige, Tetsuya; Fujii, Atsushi (Japan): "Are Research and Development Processes Independent in the Japanese Pharmaceutical R&D?"

Teich, Tobias; Unger, Katja; Müller, Melanie; Eckhardt, Ramona; Trautmann, Jürgen (Germany): "Priorizing Strategic Objectives by Lean Production Initiatives by Using the Method of Analytic Hierarchy Process"

**WEDNESDAY, [Biomedical Engineering - Invited Session \(0000013\)](#)
JUNE 30,
2010
1:10 PM - **Organizer: Shigehiro Hashimoto (Japan)**
3:40 PM **Co-Organizer: Eiji Yamada (Japan)****

Hashimoto, Shigehiro; Okada, Masahide; Uemura, Ryuuhei; Kida, Kosuke (Japan): "Orientation of Cells Cultured in Vortex Flow with Swinging Plate in Vitro"

Hashimoto, Shigehiro (Japan): "Bridge-Curriculum with Rotational Experimental Projects for Multidisciplinary Courses on Biomedical Engineering"

Iwagawa, Takeshi; Hashimoto, Shigehiro; Yoshida, Kana (Japan): "Effect of Electric Stimulation on Penetration of Molecules into Agarose Gel"

Iwata, Haruka; Hashimoto, Shigehiro; Okuda, Saori; Nakaoka, Hiroshi (Japan): "Effect of Medium Flow on Cultured Cells"

Matsuyoshi, Kosuke; Hashimoto, Shigehiro; Kida, Kosuke; Iwata, Haruka (Japan): "Optical Measurement System for pH in Medium Around Contracting Myotubes in Vitro"

Sakatani, Yuma; Hashimoto, Shigehiro; Yoriki, Junichi (Japan): "Effect of Static Magnetic Field on Muscle Cells in Vitro"

Uemura, Ryuuhei; Hashimoto, Shigehiro; Katayama, Yuki (Japan): "Effect of Electric Field on Myocytes in Vitro"

WEDNESDAY, [Technological Development and Innovation I \(IMETI\)](#)

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**JUNE 30,
2010
1:10 PM -
3:40 PM**

(Room: Salon 9)

**Co-Chair: Juan Pablo Musella (Argentina); Narayanan
Komerath (United States)**

Arroyo, Pilar; Erosa, Victoria (Mexico): "Understanding the Drawbacks of Technology Backup to Promote IT Usage among Small Mexican Firms"

Chowdhary, Girish; Komerath, Narayanan (United States): "Innovations Required for Retail Beamed Power Transmission over Short Range"

Fung, Pik-Chi James *; Lam, Wai-Pui Victor *; Ma, Li Patrick *; Chan, Chuen-Yu John ** (* Hong Kong, ** China): "Performance Study on Organic and Nitrogen Removal of Leachate by a Two-Stage Oxic-Anoxic Biological Aerated Filter (OABAF) System"

García-Martínez, Sigridt; Espinosa-Juárez, Elisa (Mexico): "Analysis of Distributed Generation Influence on Voltage Sags in Electrical Networks"

Musella, Juan Pablo; Janezic, Gustavo; Branca, Diego; López de Luise, Daniela; Milne, James Stuart; Ricchini, Germán; Milano, Francisco; Bosio, Santiago (Argentina): "Using DSS in an Industrial Context"

Zalewski, Romuald I.; Skawinska, Eulalia (Poland): "How Innovative Activity and Competitiveness Relates to Economic Growth of Nations?"

**WEDNESDAY,
JUNE 30,
2010
1:10 PM -
3:40 PM**

**Energy Engineering, Economics and Policy (EEEP)
(Room: Salon 10)**

**Co-Chair: Joshua G. Behr (United States); Jinxu Ding
(United States)**

Baitelo, R. L.; Galvão, L. C. R.; Furtado, M. C.; Udaeta, M. E. M. (Brazil): "Policy Perspective for the Development of New Renewable Energy Sources in Brazil"

Behr, Joshua G.; Díaz, Rafael (United States): "Modeling & Simulating Public Health Stemming from the Evolution in the

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Electric Energy Portfolio of Southeastern Virginia"

Ding, Jinxu; Somani, Arun (United States): "Analysis on the Impacts of the Transmission Line Capacity Expansion on Clean Power System Development to Realize Clean Energy Policies"

Fagiani, Riccardo *; Marano, Vincenzo **; Sioshansi, Ramteen ** (* Italy, ** United States): "Cost and Emissions Impacts of Plug-In Hybrid Electric Vehicles on Ohio Power Grid"

Klementavicius, Arturas; Radziukynas, Virginijus; Radziukyniene, Neringa (Lithuania): "Risk Assessment for Transboundary Spreading of Imbalances in Relation to Reduced Generation Reserves"

Micheletti, Roberto (Italy): "Digital Filtering for Power Systems Distance Protection Using Walsh Functions"

Sues, Anna; Veringa, Hubert J. (Netherlands): "Selection of the Best Biomass-to-Bioenergy Route for its Implementation in the European Energy Sector. An Integrated Efficiency, Economic and Environmental Analysis"

Townley, Christopher; Howe, Joe (United Kingdom): "Strategic Planning for Energy: Too Little Too Late?"

**WEDNESDAY, [Engineering Education and Educational Technologies I \(EEET\)](#)
JUNE 30, [\(Room: Salon 16\)](#)
2010
1:10 PM - **Co-Chair: Ali M. Darabi Golshani (Australia); Kim Cheng Tan (Singapore)**
3:40 PM**

Brown, A. Winsor; Koolmanojwong, Supannika (Sue) (United States): "USC's Two Semester Software Engineering Graduate Project Course"

Darabi Golshani, Ali M.; Nikraz, Hamid (Australia): "Integrating e-Learning and Classroom Learning for Engineering Quality Control Unit Curtin University Experience"

Fang, Linda; Thwin, Mya Mya; Kwok, Mariner; Tan, Hock Soon; Tan, Kim Cheng; Koh, Caroline (Singapore): "The Effects of

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Simulation-Based Learning on Engineering Workshop Practice"

Frank, Moti; Kordova, Sigal (Israel): "Developing a High Capacity for Engineering System Thinking (CEST) in an Active Learning Environment"

Vermiglio, Giuseppe; Totaro, Giuseppe; Acri, Giuseppe; Testagrossa, Barbara; Sansotta, Carlo (Italy): "Web Streaming Technology for Medical Physics e-Learning"

**WEDNESDAY,
JUNE 30,
2010
1:10 PM -
3:40 PM**

**[Computing / Information Systems and Technologies I \(CCCT\)](#)
[\(Room: Salon 23\)](#)**

Kubota, Naoyuki *; Komatsu, Rikako *; Lee, Beom Hee ** (* Japan, ** South Korea): "Remote Monitoring and Universal Remote Control Based on iPhone in Informationally Structured Space"

Lobb, Ano (United States): "Delivering Better Education through Better Educational Delivery Systems"

Musser, Jordan; Drumright-Clarke, Mary Ann; Galvin, Janine (United States): "Development of a Discrete Mass Inflow Boundary Condition for MFIx"

Tseng, Yili (United States): "Practical Methods to Begin Parallel Processing Education and Research"

**WEDNESDAY, [Relations between Society/Organizations and Cybernetics/Cyber-Technologies \(SOIC\)](#)
JUNE 30,
2010
1:10 PM -
3:40 PM**
Co-Chair: Susu Nousala (Australia); M. Louise Ripley (Canada)

Featro, Susan (United States): "The Relationship between Learning Styles and Student Learning in Online Courses"

Hall, William P.; Nousala, Susu (Australia): "Autopoiesis and Knowledge in Self-Sustaining Organizational Systems"

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Kurtulus, Kemal; Kurtulus, Sema (Turkey): "Recent Trends in Marketing Research in Turkey"

Mihaita, Nicolae V. (Romania): "The Emergence of Cybernetics in Semiotics. Case Study: Art, Poetry and Absurd Theatre"

Ripley, M. Louise (Canada): "Cybernetics and Consumer Behaviour: An Exploration of Theory of Messages"

Stancu, Stelian; Predescu, Oana Mădălina (Romania): "Efficient Market Theory – The Stock Market versus the Electronic Market. Romania Case Study"

**WEDNESDAY, [Educational Research, Theories, Practice and Methodologies I \(EISTA\)](#)
JUNE 30,
2010**

**1:10 PM - [\(Room: Salon 20\)](#)
3:40 PM **Co-Chair: Paula San Millan Maurino (United States);
Markus Sanz (Switzerland)****

Brage, Christina; Svensson, Eva Sofia (Sweden): "Making a Difference? Assessment of Information Literacy at Linköping University Library"

Hus, Vlasta (Slovenia): "Constructivism and Textbook Sets at Environmental Studies Subject"

Maurino, Paula San Millan (United States): "Student Perceptions of Online Discussions: Is there Agreement between Students and Faculty?"

Sanz, Markus (Switzerland): "New Teaching Experiments for New Learning Strategies the Key Role of Beliefs"

Wu, Jui-Han; Liu, Chih-Che (Taiwan): "Significant Factors in Students' Motivation to Learn English – A Case Study at One Private University in Southern Taiwan"

**WEDNESDAY,
JUNE 30,
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**4:00 PM - [Information Systems Development I \(WMSCI\)](#)
6:30 PM **Co-Chair: Kangsun Lee (South Korea)****

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Aoussat, Fadila *; Ahmed Nacer, Mohamed *; Oussalah, Mourad ** (* Algeria, ** France): "New Approach for Software Processes Reusing Based on Software Architectures"

Burita, Ladislav; Maly, Vlastimil (Czech Republic): "Information System Using Knowledge Background"

Cabral Ribeiro, Priscilla Cristina *; Batalha, Mário Otávio *; Scavarda, Annibal José ** (* Brazil, ** United Arab Emirates): "Application of RFID in Brazilian Harvest Facilities: Two Case Studies"

Fuchs, Pavel *; Novák, Jan *; Saska, Tomáš *; Šmída, Jirí *; Dvorák, Zdenek **; Kelemen, Miroslav **; Soušek, Radovan * (* Czech Republic, ** Slovakia): "Simulation of Dangerous Substances Outflows into the Environment because of Traffic Accidents by Dangerous Substances Transport"

Kim, Hyunhui; Lee, Jemin; Kim, Tesup; Lee, Kangsun; Cho, Kyu Cheol; Jang, Sung Ho; Kim, Tae Young; Lee, JongSik (South Korea): "An ASW (Anti-Submarine Warfare) Simulator on Smart Phones"

Tongprasert, Kiatnarong; Chittayasothorn, Suphamit (Thailand): "An XML-Based Petri Net to Rules Transformation Software Tool"

**WEDNESDAY,
JUNE 30,
2010
4:00 PM -
6:30 PM** [**Optical Systems, Technologies and Applications / Image and Speech Processing \(WMSCI\)**](#)
[**\(Room: Salon 5\)**](#)
Co-Chair: Motoo Fumizawa (Japan)

Erickson, Sarah J.; Martínez, Sergio; González, Jean; Caldera, Lizeth; Godavarty, Anuradha (United States): "Non-Invasive Diagnostic Breast Imaging Using a Hand-Held Optical Imager"

Foopratesiri, Rerkchai; Kurutach, Werusak (Thailand): "A Fast and Accuracy Approach Image Identification Based-On General Radon Transform"

Foopratesiri, Rerkchai; Kurutach, Werusak (Thailand): "An Improved Accuracy Rate for Face Authentication with Pose Adjustment Based-on 2D-3D Transformation"

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Fumizawa, Motoo; Ohkawa, Syuhei (Japan): "Visualization Study of Helium-Air Exchange Flow Using Optical Systems"

Grafmüller, Martin; Beyerer, Jürgen (Germany): "Segmentation of Printed Gray Scale Dot Matrix Characters"

Meza, Pablo; Vera, Esteban; Godoy, Sebastián E.; Torres, Sergio (Chile): "A New Reference-Free Infrared Image Quality Metric for Nonuniformity Correction"

Rossi, Lucile *; Akhloufi, Moulay **; Molinier, Thierry *; Tison, Yves * (* France, ** Canada): "A Stereovision System for Fire Characteristics Estimation"

Wan Ishak, Wan Ismail; Razali, Hudzari (Malaysia): "Hue Optical Properties to Model Oil Palm Fresh Fruit Bunches Maturity Index"

**WEDNESDAY,
JUNE 30,
2010
4:00 PM -
6:30 PM**

**[Communication and Network Systems, Technologies and Applications \(WMSCI\)](#)
[\(Room: Salon 6\)](#)**

Co-Chair: Tomas Zelinka (Czech Republic); Jia Wu (France)

Dag, Tamer (Turkey): "Dynamic Priority Packet Scheduler with Deadline Considerations (DPD)"

Guillén, Edward; Álvarez, Julieth; Padilla, Daniel (Colombia): "Performance and Quality of Service Analysis over Software-Based Firewall Security Architecture"

Hung, Tran Cong; Cuong, Le Quoc; Dung, Tran Van; Khanh, Tran Phu (Vietnam): "Prefeasibility Study for the Development of IPTV Service on the Network Infrastructure of Fixed Network Operators"

Kungpisdan, Supakorn; Moonviriyakit, Nitoon (Thailand): "A Highly Secure Instant Messaging Protocol"

Teich, Tobias; Zimmermann, Matthias; Schrader, Markus; Franke, Susan; Jahn, Franziska (Germany): "Using VPN Technology for Networking Intelligent Building Automation via the Internet"

Wu, Jia; Abbas-Turki, Abdeljalil; El Moudni, Abdellah (France):

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"Contextualized Traffic Controlling at Isolated Urban Intersection"

Yoo, HyunKyung; Moon, AeKyung; Park, YooMi; Kim, SangKi
(South Korea): "Framework of Semantic Web Services and
Service Mediation"

Zelinka, Tomas; Svitek, Miroslav; Srotyr, Martin; Vosatka, Michal
(Czech Republic): "Adaptive Multi-Path Telecommunications
Solutions for ITS"

**WEDNESDAY, [Knowledge Generation, Communication and Management](#)
JUNE 30,
2010 [II \(KGCM\)](#)
4:00 PM - [\(Room: Salon 7\)](#)
6:30 PM **Co-Chair: Amirah Ismail (Malaysia); Roberta Mugellesi
Dow (Germany)****

Arney, David (United States): "Communication Modeling:
Geometric Model of Mindspace or a Romance Language of Many
Dimensions"

Coburn, Dawn (New Zealand): "Conservation of Knowledge in
Visual Formats"

Eilouti, Buthayna H. (Saudi Arabia): "Environmental Knowledge in
Engineering Design Processing"

Gelston, Gariann (United States): "Live Operation Data Collection
Optimization and Communication for the Domestic Nuclear
Detection Office's Rail Test Center"

Haghighatdoost, Vahid; Espandar, Maryam; Bossaghzadeh,
Alireza (Iran): "A Fast Approach for Cross over of Two Tree-
Shape ADTs in Genetic Programming"

Ismail, Amirah *; Joy, Mike S. **; Sinclair, Jane E. **; Hamzah,
Mohd Isa * (* Malaysia, ** United Kingdom): "A Structured
Model Metametadata Technique to Enhance Semantic Searching
in Metadata Repository"

Lam, Wai Man (Hong Kong): "Applicability of e-Learning in
Musical Drawing for KGCM 2010"

Mugellesi Dow, Roberta; Pallaschke, Siegmund (Germany):

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"Capturing Tacit Knowledge for Spacecraft Operations in ESOC"

**WEDNESDAY, [Engineering Concepts, Relations and Methodologies I](#)
JUNE 30, [\(IMETI\)](#)
2010 [\(Room: Salon 9\)](#)
4:00 PM - **Co-Chair: Jonathan Wellons (United States); Dean H. Kim**
6:30 PM **(United States)****

Anzúrez Marín, Juan; Torres Salomao, Luís A.; Lázaro, Isidro I. (Mexico): "Fault Detection and Isolation for a Bus Suspension Model Using an Unknown Input Observer Design"

Chauhan, Krupesh A.; Shah, N. C.; Yadav, S. M. (India): "Affordability and Level of Assistance for Economical Weaker Section Group - A Case Study of Surat City (India)"

Kim, Dean H.; Reyer, Julie A. (United States): "Design of Palpation Simulator Using MagnetoRheological Fluids"

Mubin, Ashirul; Luo, Zuqun (United States): "Building a Reconfigurable System with Integrated Meta-Model"

Wellons, Jonathan; Johnson, Julie (United States): "Planning and the Novice Programmer: How Grounded Theory Research Can Lead to Better Interventions"

**WEDNESDAY, [Disciplinary Research and Development I \(IMETI\)](#)
JUNE 30, [\(Room: Salon 10\)](#)
2010 **Co-Chair: A. Martínez-Ramírez (Spain); Ali H. Al-Marzouqi**
4:00 PM - **(United Arab Emirates)**
6:30 PM**

Azzam, Adel A.; Al-Marzouqi, Ali H.; Zekri, Abdulrazag Y. (United Arab Emirates): "Remediation of Soil Contaminated with Crude Oil Using Supercritical CO₂"

dos Santos da Silva, Ana Paula; Bulcão, André; Landau, Luiz (Brazil): "Seismic Image and AVA Analyses Using the Reverse Time Migration (RTM) Method with Different wave Equation Implementations"

Martínez-Ramírez, A.; Lecumberri, P.; Gómez, M.; Izquierdo, M. (Spain): "Tri-Axial Inertial Magnetic Tracking in Quiet Standing

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Analysis Using Wavelet Transform"

Ribeiro, Claudio Jose Silva (Brazil): "Architecting Information Resources of Brazilian Social Security: Approaches of Social Science and Computer Science Working Together"

Tousignant, Michel; Hamel, Mathieu; Brière, Simon (Canada): "In-Home Telerehabilitation as an Alternative to Face-to-Face Treatment: Feasibility in Post-Knee Arthroplasty, Speech Therapy and Chronic Obstructive Pulmonary Disease"

**WEDNESDAY,
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4:00 PM -
6:30 PM**

**[Optical Engineering and Photonic Technology \(OEPT\)](#)
[\(Room: Salon 16\)](#)**

Co-Chair: Kazimierz J. Gofron (United States); Shuhai Jia (United States)

Durán Barroso, Ramón J.; Lorenzo, R. M.; Fernández, P.; de Miguel, I.; Merayo, N.; Bahillo, A.; Aguado, J. C.; Abril, E. J. (Spain): "Efficient Reconfiguration of Virtual Topologies in Multilayer Hybrid Optical Networks"

Gofron, Kazimierz J.; Joachimiak, Andrzej (United States): "Visualization of X-Ray Beam Using CdWO₄ Crystal for Macromolecular Crystallography"

Jia, Shuhai (United States): "Novel Optical Measurement System for Laser Transmittance and Reflectance of Materials"

Stroppa, Raquel Grando; Leonardi, Fabricio; Silva, Erivaldo Antônio da (Brazil): "Digital Image Processing Using Techniques of Mathematical Morphology"

**WEDNESDAY, [Information and Computing Technologies / Interdisciplinary Research \(CITSA\)](#)
JUNE 30,
2010
4:00 PM -
6:30 PM**

Co-Chair: Vasco Varduhn (Germany); Jérôme Frisch (Germany)

Agüero, Martín; Madou, Franco; Esperón, Gabriela; López de Luise, Daniela (Argentina): "Enhancing Source Code Metrics Scope through Artificial Intelligence"

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Braman, James; Dierbach, Charles (United States): "Second Life as a Context for Personalized Search"

Chung, Sam; Endicott-Popovsky, Barbara (United States): "Software Reengineering Based Security Teaching"

Frisch, Jérôme; Mundani, Ralf-Peter; van Treeck, Christoph; Rank, Ernst (Germany): "Performance Analysis and Optimisation Procedures of a Parallel Fluid Dynamics Code for Thermal Comfort Assessment Applications"

Luong, Duc; Lu, Ying; Deogun, Jitender; Goddard, Steve (United States): "Real-Time Scheduling of Divisible Loads in Clusters to Handle Estimated Execution Time Inaccuracies"

Ra, H. K. Ho-Kyeong; Chung, Sam; Sheng, Jie (United States): "Teaching the Way of Using Computers with Autonomous Robots for Junior-High Students"

Varduhn, Vasco; Mundani, Ralf-Peter; Rank, Ernst (Germany): "Real Time Processing of Large Data Sets from Built Infrastructure"

**WEDNESDAY,
JUNE 30,
2010
4:00 PM -
6:30 PM**

**[Application of Education Technologies I \(EISTA\)](#)
[\(Room: Salon 19\)](#)**

Co-Chair: Risa Blair (United States); Ronald A. Styron, Jr. (United States)

Alahmadi, Basim H. (Saudi Arabia): "ESP ICT Vocabulary for First-Term Students at Madinah College of Technology (MCT)"

Blair, Risa; Hartman, Sheryl (United States): "Using Free Web 2.0 Media Tools to Promote Student Engagement and Instructor Presence in Online Classes"

Bye, Beverly J. (United States): "Evaluation of High Fidelity Simulation within a Baccalaureate Assessment Course: Bridging the Challenges of Academia within the Classroom"

Mideros, Diego; Roberts, Nicole (Trinidad, Tobago): "Post it notes": Students' Perceptions on Assessment and Reflective

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Learning in the Foreign Language Learning Process Using Wikis"

Styron, Jr., Ronald A.; Styron, Jennifer (United States):
"Connecting Technology with Student Achievement: The Use of
Technology by Blue Ribbon School Principals"

**WEDNESDAY, [Education and Training Systems and Technologies I](#)
JUNE 30, [\(EISTA\)](#)
2010 [\(Room: Salon 20\)](#)
4:00 PM - **Co-Chair: Stuart Lincoln Wolthuis (United States); Teyana
6:30 PM Sapula (Tanzania)****

Burr, Kevin L. (United States): "A Case Study: Student-Centered
Course Development for a Sustainable Building/BIM Class"

Kostolányová, Katerina; Šarmanová, Jana; Takács, Ondrej (Czech
Republic): "The Use of Adaptive Individualized e-Learning at
Teaching"

Li, Jeen-Fong *; Hor, Shu *; Li, Fan ** (* Taiwan, ** Australia):
"The Association between Enterprise-Academic Experience and
Teaching Ability in Chinese-Mandarin Teachers"

Mbale, Jameson; Mufeti, Kauna (Namibia): "Random Automated
Encryption Data Model (RAEDM): Envisages the Security of e-
Learning Materials Dispatched Online"

Mellado Miller, Ronald; Tsui, Yoko H. W.; Dearden, Thomas;
Lincoln Wolthuis, Stuart; Stanley, Timothy (United States):
"Learning and Human Computer Interactions: Does Wii Bowling
Transfer to Real Bowling?"

Sapula, Teyana; Haule, Damian D. (Tanzania): "Implementation
of Time and Frequency Response Analysis for Web-Based
Laboratories"

Unalan, H. Turgay (Turkey): "The Teachers and the Students
Related to Graphic Design Lesson at Fine Arts Schools"

**WEDNESDAY, [Applications of Information and Communication](#)
JUNE 30, [Technologies in Education and Training \(Virtual](#)
2010 [Presentations\) \(EISTA\)](#)
4:00 PM - [\(Room: Room W\)](#)**

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6:30 PM

Escudero Viladoms, Núria; Sancho Vinuesa, Teresa; Pérez Navarro, Antoni (Spain): "Web Annotations in an Online Mathematics Course Using UOCLET"

Gherardi, Massimo; Vianello, Gilmo; Vittori Antisari, Livia; Zamboni, Nicoletta (Italy): "An Interactive Experience of Ecological and Environmental Education in Italy: BEL SIT Project"

Hamid, Suraya; Chang, Shanton; Kurnia, Sherah (Australia): "Investigation of the Use and Benefits of Online Social Networking (OSN) in Higher Education"

He, Binbin; Fang, Zhiyi; Sun, Bo; Zhou, Lingxi; Zhang, Yunchun (China): "An Attributes Correlation Based Learning Guidance Model"

Huie, Allison (United States): "Calliope: Web-Based Poetry on Demand"

Mansour, Samah; El-Said, Mostafa; Bennett, Leslie (United States): "Does the Use of Second Life Affect Students' Feeling of Social Presence in e-Learning?"

Sysoeva, Leda A. (Russian Federation): "The University Educational Portal: The Purposes, Architecture, Technologies of Design"

Zhou, Lingxi; Fang, Zhiyi; Sun, Bo; He, Binbin; Zhang, Xinyu (China): "A Web-Based Course Management System"

**WEDNESDAY,
JUNE 30,
2010
4:00 PM -
6:30 PM**

**[Information and Communication Technologies \(Virtual Presentations\) \(WMSCI\)](#)
[\(Room: Room Y\)](#)**

Berthon, Pierre; DesAutels, Philip A.; Butaney, Gul T. (United States): "Created Creates Creator"

Bodine, Cathy *; Rosa, Francesco **; Salvia, Emanuela **; Sandstrum, Jim * (* United States, ** Italy): "Design of an

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Assistive Graphical Interface for Juridical Framework"

de Campos, Gilda Helena B.; Oliveira Roque, Gianna (Brazil):
"Alterity as a Principle to the Formation of Educators"

Haase, Tina; Winter, Marc; Fredrich, Helge; Heinen, Albert
(Germany): "Interactive Training Application for Working under
Electrical Voltage"

van Arnhem, Jolanda-Pieta; More Quinn, E.; Spiller, Jerry (United
States): "Teaching Multimodal Ethnography with "New" Media
Technologies for WMSCI 2010"

**THURSDAY,
JULY 01,
2010
10:10 AM -
12:10 PM**

**[Higher Education \(EISTA\)](#)
[\(Room: Salon 8\)](#)**

**Co-Chair: Shelley Kinash (Australia); Linda Stern
(Australia)**

Garrard, Greg; Head, Anthony; Bevan, Andy (United Kingdom):
"Poetiks: A JISC-Funded Project to Enhance the Learning and
Teaching of Poetic Technique"

Kinash, Shelley; Hives, Lauren; Knight, Diana (Australia):
"eTEVAL Pilot Project: Migrating Teacher Evaluations to the
Online Environment"

Mendoza, Antonette; Stern, Linda; Carroll, Jennie (Australia):
""Learnability" as a Positive Influence on Technology Use"

Sowden, David P. (United Kingdom): "Delivering User-Centric
eSystems"

Williams, Greg (United States): "Academic Integrity and
Instructional Design - What Can they Possibly Have in Common?"

**THURSDAY,
JULY 01,
2010
10:10 AM -
12:10 PM**

**[Disciplinary Research and Development II \(IMETI\)](#)
[\(Room: Salon 9\)](#)**

Co-Chair: S. M. Yadav (India)

Buda, Aurel; Wollert, Joerg F. (Germany): "On the Capabilities of

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Ultra Wideband Technologies for Industrial High Speed Applications"

Dickinson, Sarah; Watson, Paul; Franks, Ann; Workman, Garry (United Kingdom): "An Innovative Approach to Interdisciplinary Teaching for Built Environment Students"

Oren, Rodger (United States): "A Conceptual Framework for Project Engineering Success"

Perez Ferreira, Patrícia; da Silva, Josias José; de Araújo Martins, Márcio; Landau, Luiz (Brazil): "Imaging of Complex Geology Using 3d Seismic Modeling"

Yadav, S. M.; Samtani, B. K.; Chauhan, K. A. (India): "Mathematical Relationship between Particle Reynolds Number and Ripple Factor Using Tapi River Data, India"

**THURSDAY,
JULY 01,
2010
10:10 AM -
12:10 PM** **[Communications Systems, Technologies and Applications \(CCCT\)](#)
[\(Room: Salon 16\)](#)
Co-Chair: Miri Priesler (Moreno) (Israel); Tomoaki Sato (Japan)**

Hernandes, Herlon Clayton Paggi; Quinelato, Fábio Magagnini; Alberti, Antonio Marcos (Brazil): "A Simplified Simulation Model for Initial Ranging in IEEE 802.16d WirelessMAN-OFDM"

Hwang, Taein; Choi, Moonok; Kang, Shinyuk; Paik, Euihyun (South Korea): "Implementation of Automated Task Migration System"

Priesler (Moreno), Miri; Reichman, Arie (Israel): "Connectivity and Transportation Description of Graphs"

Sato, Tomoaki *; Moungnoul, Phichet **; Fukase, Masa-Aki * (* Japan, ** Thailand): "Development of a WiMAX Processor by Using a CPLD"

**THURSDAY,
JULY 01,
2010
10:10 AM -** **[Application of Education Technologies II \(EISTA\)](#)
[\(Room: Salon 20\)](#)
Co-Chair: Jacinto F. Iribarren (United States)**

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Byrne, Roxanne; Tang, Michael; Tranduc, John; Tang, Matthew (United States): "eGrader, a Software Application that Automatically Scores Student Essays: With a Postscript on Ethical Complexities"

Fombona Cadavieco, Javier *; Álvarez García, María Concepción *; Pando Cerra, Pablo *; Mampaso Desbrow, Joanne *; Pascual Sevillano, María Ángeles *; Iribarren, Jacinto F. ** (* Spain, ** United States): "Transparent Institutions"

Gore, David; Lee, Marie; Wassus, Kenny (United States): "Variable Data Printing (VDP): New Applications of IT & Communications Technology"

Ikeguchi, Cecilia (Japan): "Moodle and Collaborative Learning in the ESL Classroom"

Selezneva, Elena; Veiga, Alberto (United States): "Developing Intercultural Competence and Foreign Language Skills with Web-Based Tools"

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**[Engineering Concepts, Relations and Methodologies
\(Virtual Presentations\) \(IMETI\)
\(Room: Room X\)](#)**

Aminaee, Sara *; Raziei, Seyed Ataollah ** (* Canada, ** Iran): "Value Engineering for Miane 400/230/63 KV Transformer Station in Order to Improve Quality, Optimize Costs and Project Commissioning Period"

Aminaee, Sara *; Raziei, Seyed Ataollah ** (* Canada, ** Iran): "Assessment of Alternatives and Choosing the Optimized Solution in a 400KV Tabas-Bafgh Transmission Line Project as a Good Experience for Eliminating Unnecessary Cost"

Bhatnagar, Kaninika (United States): "Engineering Technology and Gender: Enhancing Voice and Access for Minority Groups by Curricular Design for Distance Learning"

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Giberti, Hermes; Cinquemani, Simone; Legnani, Giovanni (Italy):
"A Generalized Definition of Jacobian Matrix for Mechatronical
Systems"

Giberti, Hermes; Cinquemani, Simone (Italy): "Servo Motors
Classification Based on the Accelerating Factor"

Hammad, Mahmoud Tarek M. (Egypt): "The Challenge between
Traditional and Environmental Aspects against Modern
Architectural Design, a Case Study"

O'Steen, Billy; Brogt, Erik; Chen, XiaoQi; Chase, J. Geoff (New
Zealand): "Using "System Sensing" During the Implementation of
a New Mechatronics Engineering Curriculum"

Rabe, Vlasta; Hubalovsky, Stepan (Czech Republic): "New
Concepts in Engineering Education through e-Learning"

Schwartz, Gilson; Spina, Edison; de Almeida Amazonas, José
Roberto (Brazil): "Internet of the Future Non-Engineering
Challenges"

Xie, Yimin; Wong, David; Kong, Yinan (Australia): "Hardware
Resources in Digital Systems Teaching"

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**[Information Systems Development II \(WMSCI\)](#)
[\(Room: Salon 4\)](#)**

**Co-Chair: Mariusz Trzaska (Poland); Sikha Bagui (United
States)**

Bagui, Sikha (United States): "Optimizing Outerjoins in Large
Databases Using Clustering"

Hamtini, Thair M. *; Al Zaghoul, Fawaz Ahamd M. **; Mohssen,
Nizar Mahmoud *** (* Jordan, ** Saudi Arabia, *** Palestine):
"An Assessment of End User Computing Satisfaction at a
Hospital"

Kao, Kuo-Fong; Liao, I-En (Taiwan): "Overview of PORE System:
Personal Ontology REcommender System"

Sharma, Nimmi; Parikh, Jo Ann (United States): "An Information

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System for Multi-Instrument Atmospheric Laser Radar Studies"

Trzaska, Mariusz (Poland): "GCL – An Easy Way for Creating Graphical User Interfaces"

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**[Image, Acoustic, Speech and Signal Processing \(WMSCI\)](#)
[\(Room: Salon 5\)](#)**

**Co-Chair: K. Sreenivasa Rao (India); Kohji Kamejima
(Japan)**

Aafif, Amal; Boyer, Robert P. (United States): "Integral Operator Approach for Computing Certain Generalized Fourier Transforms"

Ellen, Jeffrey; Ceruti, Marion G.; Medina, Emily; Duffy, LorRaine (United States): "Gesture-Directed Sensor-Information Fusion for Communication in Hazardous Environments"

Kamejima, Kohji (Japan): "Environmental Saliency: Stochastic Representation and Dynamic Perception"

Noga, Andrew J. (United States): "A Method of Short-Segment Fourier Analysis"

Pramod, V. R.; Banwet, D. K. (India): "System Modelling of Benchmarking Flexibility of a Service Supply Chain: A SAP-LAP Hills Framework"

Rao, K. Sreenivasa; Nandy, Sourav; Koolagudi, Shashidhar G. (India): "Identification of Hindi Dialects Using Speech"

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**[Collaborative Knowledge Management - CKM 2010: Inter-Organizational Collaboration, Collaborative Software Development, and Knowledge Management \(I\) - Invited Session \(000014\) \(KGCM\)](#)
[\(Room: Salon 6\)](#)**

**Organizer: Norbert Jastroch (Germany)
Co-Organizer: Thomas J. Marlowe (United States)**

Jastroch, Norbert *; Marlowe, Thomas ** (* Germany, ** United States): "Knowledge Transfer in Collaborative Knowledge Management: A Semiotic View"

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Ku, Cyril S.; Marlowe, Thomas J. (United States): "Software Metrics for Collaborative Software Engineering Projects"

Marlowe, Thomas *; Kirova, Vassilka *; Jastroch, Norbert **; Mohtashami, Mojgan * (* United States, ** Germany): "A Classification of Collaborative Knowledge"

Ophir, Dan (Israel): "MDSS - Management Decision Simulating System - for Solving Conflicted Situations"

Sarraipa, Joao; Figueiredo, Diogo; Maló, Pedro; Jardim-Goncalves, Ricardo (Portugal): "An Inter-Organisational Approach to Industrial e-Training"

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**[Science 2 and Expansion of Science II \(S2ES\)](#)
[\(Room: Salon 7\)](#)**

Curreri, Peter A. (United States): "A Heuristic Model of Consciousness with Applications to the Development of Science and Society"

Hara, Yohei; Ohta, Tsutomu; Sano, Toshio; Ono, Shuichiro; Ono, Hiroyuki (Japan): "Categorization of Creative Processes Based on Case Study"

Lin, Hong (United States): "Measurable Meditation"

Mihaita, Nicolae V. (Romania): "Second-Order Cybernetics, Semiotics and the Art"

Scaringella, Laurent; Chanaron, Jean-Jacques (France): "From Public Incentive Driving the Industrial Economy, to Science 2.0 Driving the Knowledge-Based Economy toward Open Innovation"

van Lier, Ben (Netherlands): "System thinking in a Hybrid and Networked Context"

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**[Educational Research, Theories, Practice and Methodologies II \(EISTA\)](#)
[\(Room: Salon 8\)](#)**

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1:10 PM - 3:40 PM **Co-Chair: Michael J. Borka (United States); Linda J. Smith (United States)**

Anselmi, Pasquale; Robusto, Egidio; Stefanutti, Luca (Italy): "Assessing Learning Processes with a Gain-Loss Model"

Borka, Michael J. (United States): "Technology and Teacher Education: Integration in Context"

Chen, Der-Thang "Victor"; Wu, Jing (Singapore): "Deconstructing New Media: From Computer Literacy to New Media Literacy"

Janouskova, Svatava; Hak, Tomas (Czech Republic): "Promoting and Measuring Values in Non-Formal Education"

Smith, Linda J. (United States): "Inside the Black Box: Exploring Mental Models in the Learning Environment"

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**[Disciplinary Research and Development III \(IMETI\)](#)
[\(Room: Salon 9\)](#)**

Co-Chair: Jun Li (China); Marko Rakin (Serbia)

Curatolo, S. (United States): "Optically Tuning TC in Any Superconductor"

Li, Ming *; Singh, Gurjiwan *; Singh, Gurjashan *; García, Alberto *; Tansel, Ibrahim *; Demetgul, Mustafa **; Yenilmez, Aylin ** (* United States, ** Turkey): "Sweep Sine Wave Based SHM for Short Composite Tubes"

Li, Jun; Zhang, Shiyi; Yang, Lizhong (China): "Analysis and Research of Influence of Advanced Ignition Angle on Engine Emission Based on Fuel Quality"

Ngabonziza, Yves; Li, Jackie (United States): "Electromechanical Behavior of CNT Nanocomposites"

Rakin, Marko *; Gubeljak, Nenad **; Medjo, Bojan *; Maneski, Taško *; Sedmak, Aleksandar * (* Serbia, ** Slovenia): "Application of a Structural Integrity Assessment Software"

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Wen, Fuhliang; Lin, Jhenyuan; Wen, Hungjiun; Chang, Kuo-Hwa (Taiwan): "Pulsed Atmospheric Pressure Plasma System Applied to PCBs Surface Treatment"

**THURSDAY,
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3:40 PM** [Engineering Education and Educational Technologies / Applications of ICT in Education and Training \(EET / EISTA\) \(EET\)](#)
[\(Room: Salon 10\)](#)
Co-Chair: S. Thomas Ng (Hong Kong); Thomas Korman (United States)

Grodzicki, George P.; DeSilva, Eranthie (Australia): "Interface for Automatic Meter Reading System"

Korman, Thomas; Johnston, Hal (United States): "Enhancing Construction Management Education through the Use of a Virtual Construction Company Simulation System"

Lewis, Raymond; Harrap, Michael (Australia): "A Flight Test Laboratory for Aeronautical Engineering Education"

Lingard, Robert W. (United States): "Improving the Teaching of Teamwork Skills in Engineering and Computer Science"

Ng, S. Thomas; Wong, Kelwin K. W.; Wong, James M. W. (Hong Kong): "Equipping Construction and Related Engineering Students for the Market Needs in Mainland China"

**THURSDAY,
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1:10 PM -
3:40 PM** [Education in Science, Technology, Engineering and Mathematics II \(EISTA\)](#)
[\(Room: Salon 19\)](#)
Co-Chair: Anders Christian Erichsen (Denmark); Xiaohong Yuan (United States)

Budnik, Mark Michael; Budnik, Heather Ann (United States): "Engineering Computer Games: A Parallel Learning Opportunity for Undergraduate Engineering and Primary (K-5) Students"

Erichsen, Anders Christian; Arnskov, Michael MacDonald (Denmark): "MapMyClimate – between Science, Education & People"

Hendel, Russell Jay (United States): "Five, Basic, Creative,

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Problem-Extension Methods for a Fixed Syllabus"

Ljung-Djärf, Agneta (Sweden): "Illustrations in Multi-Media Programs: A Way to Understand Science?"

Yuan, Xiaohong; Jiang, Keyu; Murthy, Sahana; Jones, Jonathan; Yu, Huiming (United States): "Teaching Security Management with Case Studies: Experiences and Evaluation"

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**[Engineering Education and Educational Technologies / Applications of ICT in Education and Training \(EET / EISTA\) \(EISTA\)](#)
[\(Room: Salon 20\)](#)**

Co-Chair: F. Javier del Álamo (Spain)

Álamo, F. Javier del; Martínez, Raquel; Jaén, José Alberto (Spain): "Didactic Networks: A Proposal for e-Learning Content Generation"

Al-Busaidi, Kamla Ali (Oman): "Learners' Acceptance of Learning Management Systems: Developing a Theoretical Framework"

Lam, Yan Chi (Japan): "Managing the Google Web 1T 5-Gram with Relational Database"

Lantz, Agneta; Göransson, Anne (Sweden): "Information Literacy, Quality Improvement and Learning Organizations"

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**[Communication and Network Systems, Technologies and Applications \(Virtual Presentations\) \(WMSCI\)](#)
[\(Room: Room Y\)](#)**

Chen, Kuan-Hung; Li, Yueh-Shu; Chang, Kuei-Chung (Taiwan): "A Low-Energy Multi-Length FFT Processor for DVB-T/H Systems"

Godai, Masanori; Jones, Alistair; Le Bihan, Gabrielle; Guenand, Anne (France): "Robust Design Approach of an Innovative Communication Device Integration of the Experience of the Elderly Living in the Design Process"

Park, Young C. (South Korea): "Survivability Study of Ad Hoc

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Networks"

Rigotti, Guillermo (Argentina): "Decentralized Mobile Multicast"

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**[Computer Science and Engineering I \(WMSCI / MEI\)](#)
[\(WMSCI\)](#)
[\(Room: Salon 4\)](#)
**Co-Chair: Jennifer Seitzer (United States); Frederick
Pollard (United Kingdom)****

Calvo, Andrés; Seitzer, Jennifer (United States): "MELEC: Meta-Level Evolutionary Composer"

Duwairi, Rehab *; Elhaddad, Ebraheem **; Al-Towaiq, Mohammed ** (* Qatar, ** Jordan): "Coupling Web Usage Mining with Content Mining for Recommendation Systems"

Esteban, Francisco Javier; García, Juan Carlos (Spain): "Air Traffic Modeling"

Higashiyama, Yoichi *; Cai, Xu *; Rumchev, Ventsi ** (* Japan, ** Australia): "An $O(n)$ Algorithm to Compute the Reliability of Consecutive k -out-of- r -from- n :F System under the Condition of $r < 2k$ "

Keshavarzi, Alireza *; Ball, James *; Hedayat, Nabavi ** (* Australia, ** Iran): "Study of Flow Structure over the Ripples in the Bed of Open Channel"

Lin, Hong; Sirisaengtaksin, Ongard; Chen, Ping (United States): "The Establishment of a Cluster Computing Environment at a Small Institution"

Pollard, Frederick; Shepherd, Peter; Allsopp, Duncan (United Kingdom): "Bit-Based Structure for Tactile Data in Robotics"

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**[Control Systems, Technologies and Applications II](#)
[\(WMSCI\)](#)
[\(Room: Salon 5\)](#)
**Co-Chair: Piotr Bogus (Poland); Marcin Pacholczyk
(Poland)****

Ahmed, Aden Omar (United States): "Quaternions, Arbitrary

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Maximally Entangled States, and the Quantization of Two Player,
Two Strategy Games (Invited Paper)"

Ahn, Jin Su; Chung, Won Jee; Kwon, Koo Hong (South Korea):
"On Design, Prototype and Gain Optimization for Heavy Duty
Handling Articulated Manipulator (HDHAM) with 6 DOF"

Bogus, Piotr; Merkisz, Jerzy; Idzior, Marek; Grzeszczyk, Rafal
(Poland): "Detecting Critical Situations in Railroad Traffic through
On-Board Diagnostic Systems"

Grygiel, Rafal; Pacholczyk, Marcin (Poland): "Prototyping of
Control Algorithms in Matlab/Simulink"

Khan, Faisal Shah (United Arab Emirates): "Geometric
Characterization of Nash Equilibrium in Certain Quantum Games
(Invited Paper)"

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**[Peer Reviewing I \(ISPR\)](#)
[\(Room: Salon 6\)](#)
Co-Chair: Esther Zaretsky (Israel)**

Gruberger, Nira; Priesler (Moreno), Miri; Reichman, Arie; Vitner,
Gad (Israel): "Peer Reviewing as a Quality Assurance
Methodology for Scientific/Engineering Publishing"

Hall, William P.; Vines, Richard (Australia): "What is the Value of
Peer Review? Some Sociotechnical Considerations"

Korn, Janos (United Kingdom): "Unified View of Arts and
Conventional and Systems Sciences"

Zaretsky, Esther (Israel): "The impact of Virtual Simulations,
Communication and Peer Reviewing on Spatial Intelligence and
Mathematical Achievements"

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**[Bio- and Medical Informatics and Cybernetics I \(BMIC\)](#)
[\(Room: Salon 7\)](#)
**Co-Chair: Felix Agakov (United Kingdom); Timothy J. Willis
(United States)****

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Agakov, Felix; McKeigue, Paul; Krohn, Jon; Flint, Jonathan
(United Kingdom): "Inference of Causal Relationships between
Biomarkers and Outcomes in High Dimensions"

Dubovoy, Natalie; Lam-Salazar, Julio; Kule, Amy; Roxas, Roger;
Ahmad, Ibrar; Hota, Bala; Hart, Peter; Roberts, Rebecca (United
States): "Improving Clinical Practice and Education Using the
Electronic Medical Record – Can We Incorporate New Medical
Research into Clinical Practice Using the Clinical Data Repository"

Okorie, Valentine; Jenq, John (United States): "An EMR Tool for
Clinics"

van Aartsen, Rebecca; Kondratko, Jaclyn; Vernon, Angela;
Duncan, G. Scott; Budnik, Mark M.; Nudehi, S. (United States):
"A Point Vibration Therapy Device for Individuals on the Autism
Spectrum"

Wang, Gongming; Zhang, Fa; Fan, Liya; Sun, Fei; Liu, Zhiyong
(China): "The Application of Crystal Symmetry and Visualization
in Three-Dimensional Reconstruction of the Protein Molecules"

Willis, Timothy J.; Salazar, Marcia; Jeffries, Tiffani; Foster-Bey,
John; Disney, Lynn D. (United States): "Communicating
Community-Based Participatory Research Findings to Non-
Scientific Communities: Lessons Learned from the Community
Networks Program (CNP)"

Yang, Cheng-Huei; Cheng, Yu-Huei; Chuang, Li-Yeh; Yang,
Cheng-Hong (Taiwan): "Chaotic Inertia Weight Particle Swarm
Optimization for PCR Primer Design"

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**[Information and Communication Technologies \(WMSCI /
RMCI\) \(WMSCI\)](#)
[\(Room: Salon 8\)](#)**

**Co-Chair: Masatoshi Hamanaka (Japan); Masahiko Mikawa
(Japan)**

Gonçalves, Maria José (Portugal): "Interactive White Boards in
Portuguese Primary Schools. The Teachers' View"

Hamanaka, Masatoshi; Murakami, Yuichi; Usami, Atsushi; Miura,

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Yuji; Lee, SeungHee (Japan): "System for Detecting
Kindergartners' Potential Emergency Situations"

Lakhan, V. Chris *; Parizanganeh, Abdolhossein **; Ahmad, Sajid
R. * (* Canada, ** Iran): "Applications of Geospatial
Technologies to Promote Environmental Education and
Sustainability"

Mikawa, Masahiko (Japan): "A Practicum Track Using Librarian
Robot in Support Program for Contemporary Educational Needs"

Rizzo, Carmine (France): "ETSI Security Standardization"

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**[Technological Development and Innovation II \(IMETI\)
\(Room: Salon 9\)](#)**

**Co-Chair: Narayanan Komerath (United States); Chih-Ming
Wu (Taiwan)**

Castro, Sebastião; Grandioso, Armando (Brazil): "Information
Technology and its Use at TCE-MG"

Forbes, Alex; Patel, Anant; Cone, Chris; Valdez, Pierre;
Komerath, Narayanan (United States): "A New Look at Hydrogen
Fueled Supersonic Airliners"

Franzelli, Vittorio M.; Matt, Dominik T.; Rauch, Erwin (Italy):
"The (Future) Customer Value in the Focus. An Axiomatic Design
Method Combined with a Delphi Approach to Improve the Success
Rate of New Strategies, Products or Services"

Ghazanshahi, Shahin (United States): "System Identification
Techniques for Formation Flying Telescope Arrays"

Omel'Chuk, Anatolii A. *; Yudenkova, Inna N. *; Qiang, Yang Li
**; Wen, Huang Jian **; Maslo, Nikolay A. * (* Ukraine, **
China): "Electrochemical Decontamination"

Stancu, Stelian; Predescu, Oana Mădălina (Romania): "Portfolio
Selection on the Romanian Capital Market in the Era of e-
Business"

Wu, Chih-Ming; Yu, Wen-Der; Cheng, Shao-Tsai (Taiwan):

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"Preliminary Study on the Model for Automatic Generation of Innovative Alternatives"

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**[Optical Engineering and Photonic Technology / Control Systems, Technologies and Applications \(OEPT / CCCT / CITSA\) \(OEPT\)](#)
[\(Room: Salon 10\)](#)
Co-Chair: Lorenzo Cocola (Italy); Daniel-Esteban Sierra-Sosa (Colombia)**

Cocola, Lorenzo; Fedel, Massimo; Tondello, Giuseppe (Italy): "A New Device for the Measurement of Gaseous Oxygen in Closed Containers"

Palacios, Daniel *; Sajo-Bohus, Laszlo *; Palacios, Francisco **; Palacios, Guillermo **; Ricardo, Jorge **; Goncalves, Edison ***; Valin, José ** (* Venezuela, ** Cuba, *** Brazil): "Track Imaging in CR-39 Detectors Using Digital Holographic Microscopy"

Pornthanomwong, Thanawit; Loh, Robert N. K. (United States): "Nonlinear Control of a Heartbeat Model"

Shklyar, Benzion (Israel): "On Zero Controllability of Distributed Systems"

Sierra-Sosa, Daniel-Esteban; Ángel-Toro, Luciano (Colombia): "Digital Optics Tool for Multi-Purpose Experimental Applications"

Stieglitz, Kristian; Wollert, Joerg F. (Germany): "Database Driven Modernization and Expansion of Storage Systems"

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**[Design and Research in Artificial and Natural Sciences I \(DRANS\)](#)
[\(Room: Salon 16\)](#)**

Ma, Weinan; Xiao, Hui; Kang, Qi; Zhao, Jie (China): "Daylight Design and Analysis of Y-House"

McCann, Roy A.; Rahman, Khalid (United States): "Design

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Research in Cyber-Physical Systems through Weak-Bisimulation"

Odongo, Agnes Owuato (Kenya): "Towards Ubiquitous Database Management Systems. A Case Study of e-Government Services in Selected Developing Countries"

Sanz, Markus (Switzerland): "New Teaching Experiments for New Learning Strategies. How Design-Based Research Can Increase Efficiency in Education"

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**[Politics and Information Systems, Technologies and Applications \(PISTA\)](#)
[\(Room: Salon 19\)](#)**

Co-Chair: Ryan T. Willbrand (United States); Christopher Dreisbach (United States)

Capek, Jan; Ritschelova, Iva (Czech Republic): "Secure Communication between Authorities, Companies and Citizens within eGovernment"

Choi, Yeon-Tae; Park, Sangin (South Korea): "An Empirical Study of Gender Difference in Central Government Website Usage: The Korean Case"

Dreisbach, Christopher (United States): "The Ethics of the Ethics of Belief"

Ishikawa, Yusho; Ichikawa, Nobuyuki; Ninomiya, Toshie (Japan): "Environment and Governance for various Specialist Network toward Innovation"

Kim, Byungkyu; Cho, Deokho (South Korea): "The Impact of Mobilization Power of the Elderly on Welfare Spending for the Elderly in South Korea -Visualizing the Variation Applying Geographical Information System-"

Klerx, Joachim (Austria): "An Intelligent Screening Agent to Scan the Internet for Weak Signals of Emerging Policy Issues (ISA)"

Pantserev, Konstantin A. (Russian Federation): "The States of Sub Saharan Africa on the Way to the Global Information Society"

Willbrand, Ryan T. (United States): "The Evolution toward

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"Bureaucracy 2.0": A Case Study on Intellipedia, Virtual
Collaboration, and the Information Sharing Environment in the
U.S. Intelligence Community"

**THURSDAY,
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6:30 PM** [**Educational Research, Theories, Practice and
Methodologies III \(EISTA\)
\(Room: Salon 20\)**](#)
**Co-Chair: Nasir Butrous (Australia); Godfrey A. Steele
(Trinidad and Tobago)**

Bollaert, Hiram (Belgium): "Holistic Embedding of Interaction
Generating Learning Objects"

Butrous, Nasir (Australia): "Online Access Patterns and Students'
Performance"

Corfield, Fleur (United Kingdom): "Supporting an Innovative
Curriculum in a Traditional HE Environment. Developing a
Winning Strategy to Support Change at Staffordshire University"

Falorsi, P. D.; Centra, M.; Gualtieri, V.; Linfante, G. (Italy): "The
Skills and Transitions from School to Work: Sampling Strategy for
a Longitudinal Survey in Italy"

O'Sullivan, Jill (United States): "A Framework for Developing an
Assessment Tool of Enterprise Resource Planning Systems (ERP)
Used in intro ERP Business Courses"

Steele, Godfrey A. (Trinidad, Tobago): "Self and Peer Assessment
in an Undergraduate Communication Research Class Using Mixed
Methods"

**THURSDAY,
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4:00 PM -
6:30 PM** [**Peer Reviewing \(Virtual Presentations\) \(ISPR\)
\(Room: Room Y\)**](#)

Eichberger, Arno; Fachbach, Bernd (Austria): "Introduction of a
Peer-Review Process to an Interdisciplinary Symposium on Virtual
Vehicle Development"

Mavrofides, Thomas; Papageorgiou, Dimitris; Kameas, Achilles

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(Greece): "Science as a Second-Order Observer: Proposing a Reference Influence Factor"

Mawlawi Diab, Nuwar (Lebanon): "Peer-Editing versus Self-Editing in the ESL Classroom"

Samkin, Grant (New Zealand): "Academic Publishing: A Faustian Bargain?"

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12:10 PM**

[Human Agent Interaction: Design Theory for Interactive Agents and Robots - Invited Session \(000009\) \(WMSCI\) \(Room: Salon 4\)](#)

Organizer: Michita Imai (Japan)

Imai, Michita; Noda, Masato; Fujimoto, Kenta; Ohsumi, Toshihiro; Kuwayama, Yuki; Osawa, Hiroataka (Japan): "A Portable Robots to Share Real World Experiences"

Komatsu, Takanori; Yamada, Seiji (Japan): "Effects of Adaptation Gap on User's Variation of Impressions of Artificial Agents"

Naito, Hisashi; Takeuchi, Yugo (Japan): "Human Recognition of Shared Environment through the Body in HAI"

Ono, Tetsuo; Ogawa, Kohei (Japan): "Cognitive Effects to Interactions by Relationships between Humans and Agents"

Osawa, Hiroataka; Matsuda, Yuji; Ohmura, Ren; Imai, Michita (Japan): "Extended Imaginary Body: How Users Percept the Body of an Agent?"

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[Academic Globalization \(AG\) \(Room: Salon 6\)](#)

Co-Chair: Ana Cristina Sánchez (United States); Mai Al-Khajah (United Arab Emirates)

Al-Semary, Hebatalla; Al-Khajah, Mai; Hamidou, Kamal (United Arab Emirates): "The Interaction between Education and Globalization: Comparative Study of Four GCC Countries"

Bambir, Danijela *; Drozdova, Matilda **; Horvat, Jelena * (*

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Croatia, ** Slovakia): "Applicability of Existing HRM Models in Order to Develop HRIS Model for University"

DiBlasio, Michael; Vincenti, Giovanni; Braman, James (United States): "Designing SCORM Compliant Courses for Introductory Programming Students"

Fehr, Elfriede; Naphtali, Tino; Dageförde, Ingo (Germany): "Motivation for and Concept of BolognaLife Portal"

Michelini, Rinaldo C.; Razzoli, Roberto P. (Italy): "Globalisation Scenarios: Changeful Knowledge Society vs. Growth Sustainability"

Oni, Gbolahan *; Tsui, Amy *; Fatusi, Adesegun ** (* United States, ** Niger): "An Institutional Network to Strengthen Capacity of Public Health Education in Population and Reproductive Health in Sub-Saharan Africa"

Sánchez, Ana Cristina (United States): "Using the 'Deliberative Polling Method' in the Spanish Classroom"

Thomson, Grace (United States): "Global Risks in Higher Education: Emergence of a Risk-Based Leadership Model"

Trifas, Mónica; Francia, Guillermo; Yang, Ming (United States): "Jacksonville State's Gamecocks Going Global"

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**[Peer Reviewing II \(ISPR\)](#)
[\(Room: Salon 7\)](#)**

Komerath, Narayanan (United States): "Some thoughts on Peer Review in the Global Internet Context"

Kumar, Pavan; Kumar, Durgesh (India): "Topic: Decision Support Systems Engineering Applied to Editorial Decisions"

Nousala, Susu (Australia): "Improving the Peer Review Process: an Examination of Commonalities between Scholarly Societies"

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and Knowledge Networks"

Simpson, William R. (United States): "Peer Review - A Personal Point of View"

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**[Computing / Information Systems and Technologies /
Interdisciplinary Research / Applications of Cybernetics &
Informatics in other Disciplines \(CCCT\)](#)**

[\(Room: Salon 9\)](#)

Co-Chair: Abhijit Sen (Canada); Tomoaki Sato (Japan)

Arroyo, José Antonio; Aguerrebere, Roberto; Torres, Guillermo (Mexico): "Estimating of Operating Costs for Intercity Vehicles in Mexico"

Caron-Pargue, Josiane (France): "Cognitive Structure of Information from Verbal Instructions for Tying a Square Knot"

Folcik, Michael; Martínez, Christopher J. (United States): "Using Fuzzy Logic for Environmental Mapping in Robotic Applications"

Fukase, Masaharu; Yamaguchi, Kazunori (Japan): "The Analysis of the Extended Search Space for the Shortest Vector in Lattice"

Fukase, Masa-Aki; Yokoyama, Atsuko; Ishihara, Takumi; Uchiumi, Harunobu; Sato, Tomoaki (Japan): "Wave Degree versus Dominant Characteristics of a Waved Multifunctional Unit"

Sen, Abhijit; Gilburg, Eugene (Canada): "GCTS- An RFID Application for Crops Tracking in Green House"

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**[Design and Research in Artificial and Natural Sciences II
\(DRANS\)](#)**

[\(Room: Salon 19\)](#)

Holmqvist, Mona (Sweden): "Designing Internet Based Learning by the Use of Variation Theory"

Olteanu, Constanta; Olteanu, Lucian (Sweden): "Subtraction – The Improvement of Communication through Critical Aspects"

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Zaretsky, Esther (Israel): "The Contribution of Virtual Reality Software to Design in Teaching Physical Education"

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**[Disciplinary Research and Development \(Virtual Presentations\) \(IMETI\)](#)
[\(Room: Room X\)](#)**

Bervalds, Edgars; Dobelis, Modris (Latvia): "Pentahedral Honeycomb with Skew Hexagonal Faces"

Bhowmik, P. *; Das, S. *; Nandi, D. *; Chakraborty, A. *; Konar, A. *; Nagar, A. K. ** (* India, ** United Kingdom):
"Electroencephalographic Signal Based Clustering of Stimulated Emotion Using Duffing Oscillator"

Fox, Jorge; Clarke, Siobhán (Ireland): "A Survey of Dynamic Adaptation Techniques"

Mukherjee, Debnath; Shakya, Deepti; Misra, Prateep (India):
"Complex Event Processing in Power Distribution Systems: A Case Study"

Rodrigues da Silva Morais, Crislene; Brasileiro Campos Mota, Gabriela; Costa Silva, Helionalda; dos Santos Dantas, Sebastião Acácio; Coura Mariz, Felipe; Freitas Lira, Bruno; Feitosa de Souza, Marcos Antonio (Brazil): "Synthesis and Characterization of Nanocomplex of Erbium with Mesoionic 2(4-Chlorophenyl)-3-Methyl-(Methoxyphenyl)1,3-Tiazolium-5-Thiolate and 2,2-Bipyridine"

Wang, Yan; Le, Jiajin; Huang, Dongmei (China): "Research on the Fuzzy Comprehensive Evaluation of Performance Analysis in the Data Warehouse Engineering Model Design"

Wang, Chihong; Guo, Xuhong; Wang, Wei; Dong, Qu (China):
"Study on the Influence of Cutting Parameters on Cutting Forces and Chip Shape of Austempered Ductile Iron (ADI)"

Zaidi, Syed Ammar; Marzencki, Marcin; Menon, Carlo; Kaminska, Bozena (Canada): "Non-Invasive Method for Pre-Hospitalization Treatment of Heart Attack Patients"

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**[Free/Open Source Software / Computer Science and
Engineering \(Virtual Presentations\) \(WMSCI\)
\(Room: Room Y\)](#)**

Al-Tarawneh, Mutaz; Botros, Nazeih (United States): "Improving the Off-Chip Bandwidth Utilization of Chip Multiprocessors (CMP) Using Early Write-Back"

Kozlov, Denis; Koskinen, Jussi; Sakkinen, Markku; Markkula, Jouni (Finland): "Exploratory Analysis of Open Source Software Forks"

Valakevicius, Eimutis; Snipas, Mindaugas (Lithuania): "A Recursive Algorithm for Computing Steady State Probabilities"

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**[Risk Management and Cyber-Informatics / Management,
Engineering and Informatics \(RMCI / MEI\) \(RMCI\)
\(Room: Salon 4\)](#)**

**Co-Chair: Hailiang Yang (Hong Kong); Musibau Shofoluwe
(United States)**

Barrows, Anne; Kucik, Paul; Skimmyhorn, William; Straigis, John (United States): "A Systems Analysis of the A.Q. Khan Network"

Globevnik, Lidija; Zupan Vrenko, Dunja; Kovacic, Marko (Slovenia): "Information Flow of Water Quality in Europe and Development of Data Sharing System – First Experience"

Marquet, Bertrand; Dubus, Samuel; Blad, Christophe (France): "Security Assurance Profile for Large and Heterogeneous Telecom and IT Infrastructures"

Rodríguez M., J. Hugo; López A., Esmeralda; Morales G., Magdalena; Soriano P., Ana (Mexico): "Information System for the Performance Assessment of Cooling Equipment in Power Plants"

Shofoluwe, Musibau; Bogale, Tesfa (United States): "An Investigative Study of Risk Management Practices of Major U.S. Contractors"

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Soto Corpuz, María; Barnes, Paul (Australia): "Integrating Information Security Policy Management with Corporate Risk Management for Strategic Alignment"

Ustundag, Alp; Kilinc, Mehmet Serdar (Turkey): "Design and Development of RFID Based Library Information System"

Yuen, Fei Lung; Yang, Hailiang (Hong Kong): "Pricing Options and Equity-Indexed Annuities in a Regime-Switching Model by Trinomial Tree Method"

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**[Knowledge Generation, Communication and Management
III \(KGCM\)](#)
[\(Room: Salon 5\)](#)**

Co-Chair: Dan Ophir (Israel); René Pellissier (South Africa)

Jiang, Lili (China): "Research on IETM Publishing System Based on MVC Pattern"

Ophir, Dan (Israel): "Simplifying Complex Problems"

Pellissier, René; Kruger, J. P. (South Africa): "A Study of Strategic Intelligence as a Strategic Management Tool in the Long-Term Insurance Industry in South Africa"

Tarabek, Paul (Slovakia): "Knowledge Communication and Representation in Science Education"

Tarabek, Paul *; Adamcikova, Veronika ** (* Czech Republic, ** Slovakia): "Educational Communication in Science Education"

Völz, Diana; Schüle, Anselm; Anderl, Reiner (Germany): "An Approach to Use Semantic Annotations in Global Product Development to Bridge the Gap in Interdisciplinary and Intercultural Communication"

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**[Design and Research in Artificial and Natural Sciences III
\(DRANS\)](#)
[\(Room: Salon 6\)](#)**

Co-Chair: Henrik Scharfe (Denmark)

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Amacker, Ariana; Tyler, Mary-Ellen (Canada): "We-Design: Community Design and Research as an Embedded Collective Social Process"

Balvetti, R.; Rubini, L.; Zampetti, C.; Bernardo, F.; Grandinetti, A.; Mussi, B.; Bozanceff, G.; Iencenelli, C.; Bargellini, M. L.; Battaglia, M.; Botticelli, A.; Casadei, G.; Filippini, A.; Guidoni, A.; Pancotti, E.; Puccia, L. (Italy): "From Natural Intelligence to Synthetic Intelligence through Cybernetic Model"

Pratt, Ciara C. (United States): "Observation and Analysis of Context Altered Expressions"

Scharfe, Henrik; Bertel, Lykke (Denmark): "Tracing Concepts in Designing for Change"

Zhao, Jie; Xiao, Hui; Kang, Qi; Yan, Yong; Jiang, Lei (China): "Design of Integrated Control System for Indoor Environment"

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[Science 2 and Expansion of Science S2ES / Academic Globalization \(S2ES / AG\) \(S2ES\) \(Room: Salon 7\)](#)

Aruga, Masahiro; Aruga, Masayuki (Japan): "On the New Scientific and Technological Methodologies on the Basis of Philosophical Consideration"

Fombona Cadavieco, Javier (Spain): "WEB 2.0 Audiovisual: Educational Model Reference"

Gonçalves, Maria José (Portugal): "New Approaches to the Study of Complex Systems in Social Science - a Case Study"

Tarabek, Paul (Czech Republic): "New Ways of Educational Science in a Frame of the Science 2"

White, Marta Szabo (United States): "Academic Globalization: Cultureactive to Ice- The Cross-Cultural, Cross-Disciplinary and Cross-Epistemological Transformation"

FRIDAY, [New Multimedia Technologies for Visual Education and](#)

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**[Entertainment - Invited Session \(0000003\) \(IMSCI\)](#)
[\(Room: Salon 8\)](#)**

Organizer: David Fonseca (Spain)

Badía-Corróns, Anna; García-Pañella, Óscar (Spain): "A Project-Based Approach for a Multimedia Engineering Degree"

Clares, Judith (Spain): "The Media Program 2007-2013 and its Impact on the Development of New Technologies: The Calls for Proposals on Pilot Projects"

Fonseca, David; Villagrasa, Sergi; García, Óscar; Navarro, Isidro; Puig, Janina; Paniagua, Fernando (Spain): "User's Experience in the Visualization of Architectural Images in Different Environments"

Montaña, Mireia (Spain): "Young Adults as Media Consumers. Internet as a Related Media but with Few Coverage"

Puig, Janina; Durán, Jaume (Spain): "Digital Twins"

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**[Disciplinary Research and Development IV \(IMETI\)](#)
[\(Room: Salon 9\)](#)**

Co-Chair: Avital Braiman (United States)

Braiman, Avital; Rudakov, Fedor; Thundat, Thomas (United States): "DNA Separation by Directed Optical Transport"

Caglar, Yasemin *; Li, Keyan **; Xue, Dongfeng **; Caglar, Mujdat *; Ilican, Saliha * (* Turkey, ** China): "Investigation of Microstructure and Optical Properties of Sol Gel Derived MgZnO Films"

Caglar, Mujdat; Yakuphanoglu, Fahrettin; Caglar, Yasemin; Ilican, Saliha (Turkey): "Copper Phthalocyanine Field Effect Transistor Fabricated by Thermal Evaporation"

Ilican, Saliha; Caglar, Mujdat; Yakuphanoglu, Fahrettin; Caglar, Yasemin (Turkey): "Photovoltaic Characteristics of the

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Nanostructured n-CdO/p-Si Photodiode"

Zamin, Norshuhani; Ghani, Arina (Malaysia): "A Hybrid Approach for Malay Text Summarizer"

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**[Engineering Education and Educational Technologies II \(EEET\)](#)
[\(Room: Salon 10\)](#)**

Co-Chair: Donald A. Dinero (United States); Yael Bamberger (United States)

Bamberger, Yael; Cahill, Clara; Hagerty, James; Short, Harry; Krajcik, Joseph (United States): "Learning Science by Doing Design: How Can it Work at the Middle School Level?"

Casanova del Ángel, Francisco (Mexico): "Statistical Analysis of the Level of Use of Technologies among Higher Education Students in Mexico"

Dinero, Donald A. (United States): "Training within Industry: Fundamental Skills in Today's Workplace"

Fok, W. W. T.; Chan, C. K. Y. (Hong Kong): "Experiential Learning for Engineering Education. A School Reconstruction Project in Sichuan after the 5.12 Earthquake"

Sharma, Narendra (United States): "Project-Based Laboratory Experiences in Mechanical Engineering"

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**[Relations between Society/Organizations and Informatics \(SOIC\)](#)
[\(Room: Salon 19\)](#)**

Co-Chair: Dixi Louise Strand (Denmark); George W. Musambira (United States)

Leclerc, Jean-Marie *; Leclerc, Christine ** (* Switzerland, ** United States): "Redefining Information as a Strategic Resource"

Meenai, Yaseen Ahmed; Meenai, Twaha Ahmed; Tehsin, Arafat; Ilyas, Mohammad Ali (Pakistan): "Crime Forecasting System (An Exploratory Web-Based Approach)"

Muwanguzi, Samuel; Musambira, George W. (United States):

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"The Transformation of East Africa's Economy Using Mobile Phone Money Services: A Pragmatist Account of ICT Use"

Perng, Chyuan; Tsai, Jen-Teng; Lin, Chieh-Yun; Ho, Zih-Ping (Taiwan): "A Study of the Manufacturing Process Knowledge Management System (KMS) - Taiwanese Flexible Display Industry as an Example"

Strand, Dixi Louise (Denmark): "Principles for IT Praxiography"

Sufian, Abu Jafar Mohammad (Bahrain): "An Analysis of Poverty - A Ridge Regression Approach"

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**[Educational Research, Theories, Practice and Methodologies IV \(EISTA\)](#)
[\(Room: Salon 20\)](#)**

Co-Chair: David Branham (United States); Teresa Guasch (Spain)

Chadha, Anita; Branham, David (United States): "Classroom Technology, Interior Infrastructure and the Perception of Learning Effectiveness at the University Level"

Guasch, Teresa; Espasa, Anna (Spain): "University Teachers' Conceptions and Competencies about Educational Supports in an Online Learning Environment"

Iserbyt, Peter (Belgium): "Peer Tutoring: The Effect of Being a Tutor for Learning Cardiopulmonary Resuscitation (CPR) with Task Cards"

Morley, Graham (United Kingdom): "Is Gender, Age or Experience a Problem? Issues for Primary Teachers with ICT"

Nail, Allan (United States): "Providing Online Support for Beginning Teachers to Facilitate Transfer of Pedagogical Theory to Practice"

Reinertsen, Anne (Norway): "Quality Oriented – Or "Slow Research" Conversations about Assessment in Schools or Building Dynamics into Both Design and Result"

FRIDAY,

[Politics and Information Systems, Technologies and](#)

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**[Applications \(Virtual Presentations\) \(PISTA\)
\(Room: Room W\)](#)**

Flammia, Madelyn (United States): "Developing Web Applications for Disenfranchised User Groups"

Franz, Barbara *; Götzenbrucker, Gerit ** (* United States, ** Austria): "Computers and Young Turks: The Integration Potential of Digital Media"

Porrello, Antonino; Talone, Antonio; Collovini, Diego A. (Italy): "Cultural Mapping: The Semantic Web as a Survey Tool for the Construction of the Cultural Plan"

Sadri, Houman; Flammia, Madelyn (United States): "The Role of Digital Media in Empowering Individuals: Public Diplomacy, the Blogosphere, and the Digital Divide"

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**[Information Systems, Technologies and Applications
\(Virtual Presentations\) \(WMSCI\)
\(Room: Room Y\)](#)**

Beaton, E. K.; Boiney, L. G.; Drury, J. L.; GreenPope, R. A.; Henriques, R. D.; Howland, M. D.; Klein, G. L. (United States): "Collaboration Capabilities for Crisis Management"

Mertens, Karin; Mees, Wim (Belgium): "Providing In-Situ Sensor Information to Crisis Management Systems During Industrial Emergencies"

Poder, Thomas G.; Godbout, Sylvie T.; Bellemare, Christian (Canada): "Dual vs. Single Monitor in a Canadian Hospital Archiving Department: A Study of Efficiency and Satisfaction"

Tóth, Máté; Korotij, Ágnes; Kovács, Zoltán Csaba; Domokos, Bálint (Hungary): "A Knowledge Sharing Framework Based on Topic Maps Compliant Web Glossaries"

FRIDAY, [Applications of Informatics and Cybernetics in Science and](#)

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**[Engineering/Systemics \(Virtual Presentations\) \(WMSCI\)
\(Room: Room Z\)](#)**

Janota, Aleš; Spalek, Juraj; Šebenová, Jana (Slovakia):
"Multiagent System-Based Modeling of Traffic Control System
Behavior"

Qiao, Fengxiang; Ma, Lijin; Yu, Lei (United States): "Synthesizing
Eligible Criteria for Texas major Traffic Generators Based on
Fuzzy Logic"

Sajjadi, S. Reza; Shi, Jing; Farahmand, Kambiz (United States):
"Health Care Digital Data Collection System: An Opportunity to
Improve Operations"

Salatian, Apkar; Adepoju, Francis; Odinma, Augustine (Nigeria):
"TRENDER - A Wavelets Approach to Deriving Trends in
Respiratory ICU Monitor Data"

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**[Applications of Informatics and Cybernetics in Science and
Engineering / Systemics \(WMSCI\)
\(Room: Salon 4\)](#)**

**Co-Chair: Martine Naillon (France); Niculae V. Mihaita
(Romania)**

Dai, Ming-Xin; Peng, Shi-Tao; Zhan, Shui-Fen; Liu, Chun-Guang;
Feng, Jian-Feng (China): "Control Mechanism of Phytoplankton
Biomass Explaining by Data Mining Method of Partial Least-
Squares Regression"

Dumachev, Vladislav; Rodin, Vladimir (Russian Federation): "New
Constants in the System of Verhulst Equations"

Gardezi, A. K.; Gardezi, H.; Figueroa-Sandoval, B.; Exebio-
García, A.; Márquez-Berber, S. R.; Larqué-Saavedra, M. U.;
Mejía-Sáenz, E.; Talavera-Magaña, D.; Delgadillo-Piñón, M. E.;
Villanueva-Verduzco, C. (Mexico): "Effect of Glomus Intraradices
Associated with Different Genotypes of Phaseolus Vulgaris
(Common Bean) in Two Soil Types"

Kumar, Pavan; Kumar, Durgesh (India): "An Approach to Model

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Pseudo-Visual Retrieval System Based on Acoustic Signal for
Visually Challenged People"

Mihaita, Nicolae V. (Romania): "Simple Quantitative Tools"

Naillon, Martine; Di Chiara, Jean-François (France):
"decider.track for cyber_tracking. A New Paradigm for Global
Security in Finance and Defense"

Tarabek, Paul (Czech Republic): "Cognitive Architecture of
Concepts: Conceptual Meta-Model"

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**[Computer Science and Engineering \(WMSCI\)](#)
[\(Room: Salon 5\)](#)**

**Co-Chair: Bruce R. Barkstrom (United States); Matheus R.
C. Teixeira (Brazil)**

Barkstrom, Bruce R.; Sidell, Paula L. (United States): "A Discrete,
Deterministic Model for Understanding Software Project
Development Contingency Profiles"

Cheng, Chen-Yang; Wang, Li-Chih; Hsu, Shih-Lun (Taiwan):
"Development of an Iterative Bidding Mechanism for Multi-Agent
Planning and Manufacturing Control System"

Etchison, Joshua; Skelton, Gordon; Pang, Qing; Hulitt, Timothy
(United States): "Mobile Intelligent Sensor Network Used for Data
Processing"

Hubbard, Eugene; Hsu, Dennis; Lawson, Jamie; Singh, Rajdeep
(United States): "Deception Robust Control of Self-Organizing
Network of Unattended Sensors"

Nunes, Luiza H. S.; Teixeira, Matheus R. C.; Codognoto, Lucia;
Marinke, Rogério (Brazil): "Artificial Neural Networks Applied in
Quantitative Chemical Analysis"

Soto, Pamela; Demergasso, Cecilia; Serón, Marco; Meneses,
Claudio (Chile): "Decision Trees and Rule Induction Applied to the
Characterization of Oxidizing Activity of a Microbial Community in
an Industrial Bioleaching Heap"

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**[Bio- and Medical Informatics and Cybernetics II \(BMIC\)](#)
[\(Room: Salon 6\)](#)**

Co-Chair: D. Sarpong (United States); P. U. Mak (Macau)

Gottumukkula, R.; Anugu, P.; Musani, S. K.; Buxbaum, S. G.; Wilson, G.; Sarpong, D. (United States): "Efficient Management and Manipulation of Genetic Data Using Microsoft GUI Interfaces"

Gottumukkula, R.; Buxbaum, S.; Anugu, P.; Wilson, G.; Musani, S.; Sarpong, D. (United States): "Application of GUI Interfaces for the Management of Complex Genetic Data Files Prior to Analysis"

Liang, Victor C.; Ng, Vincent T. Y. (Hong Kong): "Meta-Classification of Multi-Gene Data with Alternative Feature Mapping"

Liu, George (United States): "Analysis of CR1 Repeats in the Zebra Finch"

Martínez-Hernández, Claudia A.; Pérez-González, Héctor G.; Martínez-Pérez, Francisco E.; Pérez-González, Luís F.; Cuevas-Tello, Juan C.; Mora, Manuel (Mexico): "Service-Oriented Architecture for Prevention of Nosocomial Infections"

Pun, S. H. *; Gao, Y. M. **; Mak, P. U. *; Vai, M. I. *; Du, M. ** (* Macau, ** China): "Quasi-Static Multilayer Electrical Modeling of Human Limb for IBC"

Sekhar, Chandra P.; Yilmaz, Muhittin; Bashir, Sajid; Liu, Jingbo (United States): "Integration of Nanofabrication and Design Optimization: Structure Characterization, Intelligent Modeling, and Performance Evaluation of Phenol Sensor"

Stantchev, Vladimir; Tamm, Gerrit (Germany): "Towards Ambient Intelligence and the Internet of Services in Healthcare"

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**[Science 2 and Expansion of Science III \(S2ES\)](#)
[\(Room: Salon 7\)](#)**

Co-Chair: Ben van Lier (Netherlands)

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Fomin, Boris F.; Kachanova, Tamara L. (Russian Federation):
"Physics of Systems is a Postcybernetic Paradigm of
Systemology"

Forsgren, Olov; Johansson, Torbjörn (Sweden): "e-
Power to the People –
Integration of Web 2.0 and Science 2.0 in eService Development.
Basic Ideas and the ISSI/eClic-
Projects as an Application in the Scandina-
vian/European Context"

Scaringella, Laurent; Chanaron, Jean-Jacques (France): "From
Public Incentive Driving the Industrial Economy, to Science 2.0
Driving the Knowledge-Based Economy Toward Open Innovation"

Shin, Sung-Moon; Kim, Min-Taek; Kim, Yeong-Jin; Kim, Dae-Sik
(South Korea): "The Organic Mobile Communication for Future
Internet"

Tarabek, Paul (Slovakia): "Epistemological Layers of Scientific
Cognition"

van Lier, Ben; Hardjono, Teun. W. (Netherlands): "Luhmann
Meets the Matrix. Exchanging and Sharing Information in
Network-Centric Environments"

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**[Peer Reviewing III \(ISPR\)](#)
[\(Room: Salon 8\)](#)**

Dreisbach, Christopher (United States): "Epistemic Conservatism
in Peer Review: A Burkean Defense"

Murphy, Margaret (United States): "Peer Review: Ethical
Research and Academic Integrity"

Reinertsen, Anne (Norway): "Double(D) Standards" Neutral
Formalism and Inspiring Forward; Challenging the Ontological
Space of Peer Review Perhaps"

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**[Engineering Concepts, Relations and Methodologies II
\(IMETI\)](#)**

[\(Room: Salon 9\)](#)

Co-Chair: Maria Augusta Soares Machado (Brazil); Edgar E. Troudt (United States)

Baltazar, Clayton; Ribeiro, Tathiane; Machado Caldeira, André; Soares Machado, Maria Augusta; Lermontov, Mihail; Martins França, Rômulo; Drummond, Thiago; Gassenferth, Walter (Brazil): "Using Data Mining to Optimize Commercial and Operational Interests: A Case Study of Duke Energy Brazil"

Hidalgo, Ieda G. *; Soares F., Secundino *; Fontane, Darrell G. **; Cicogna, Marcelo A. *; Lopes, João E. G. * (* Brazil, ** United States): "Impact of the Data Quality from Hydroelectric Plants in the Past Operation Analysis Using a Middle Term Simulation Tool"

Lobato Calleros, Odette; Rivera, Humberto; Serrato, Hugo; Golden, Frederick; León, Crhistian; Gómez, Ma. Elena; Cervantes, Paola; Acevedo, Adriana; Méndez Ramírez, Ignacio (Mexico): "Design and Implementation of a Methodology for the Establishment of the Mexican Customer Satisfaction Index for Social Programs: The Case of the Subsidized Milk Program"

Troudt, Edgar E.; Winkler, Christoph; Audant, A. Babette; Schulman, Stuart (United States): "The Engineering Virtual Enterprise: A Framework for Soft and Entrepreneurial Skills Education"

Tshitshonu, Eudes K. (South Africa): "An Approach to Online Support for Effective Teaching and Learning, a Study Case"

Vint, Larry Amo (Australia): "Refocussing Engineering Design for a Sustainable Living Environment"

Vornholt, Stephan; Köppen, Veit (Germany): "Data-Driven and Integrated Engineering for Virtual Prototypes"

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[Hybrid Applications/Systems, Dual Technologies, Cross-Fertilizing Research and Analogical Thinking \(CCCT\)](#)

[\(Room: Salon 10\)](#)

Co-Chair: Keiko Nagata (Japan); Yuki Higuchi (Japan)

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Higuchi, Yuki; Takeyasu, Kazuhiro (Japan): "Analysis of the Preference Shift of Customer Brand Selection among Multiple Genres of Automobile and its Matrix Structure"

Ma, Yulin; Wu, Qing; Zhang, Rui; Yan, Xinping (China): "Research on Longitudinal Tracking Control for a Simulated Intelligent Vehicle Platoon"

Takeyasu, Kazuhiro; Nagata, Keiko (Japan): "Estimation of Smoothing Constant of Minimum Variance Searching Optimal Parameters of Weight"

Takeyasu, Kazuhiro; Ishii, Yasuo (Japan): "Simplified Machine Diagnosis Techniques Using 3rd Order ARMA Model of Absolute Deterioration Factor"

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**Information Systems (CITSA)
(Room: Salon 16)**

Co-Chair: William R. Simpson (United States); Mario Norbis (United States)

Chandersekaran, Coimbatore S.; Simpson, William R. (United States): "Use Case Based Access Control"

Chandersekaran, Coimbatore S.; Simpson, William R. (United States): "A SAML Framework for Attribution, Delegation and Least Privilege"

Erkollar, Alptekin *; Zimmermann, Alfred ** (* Austria, ** Germany): "Framework for Capability and Maturity Evaluation of Service-Oriented Enterprise Architectures (Invited Paper)"

Lorents, Peeter; Matsak, Erika (Estonia): "System Mining Inference Rules from Natural Language Texts"

Norbis, Mario; Meixell, Mary J. (United States): "Using Knowledge in Seaport Selection to Enhance Supply Chain Security"

Romaguera, Salvador; Castro-Company, Francisco (Spain): "Intuitionistic Fuzzy Metric Applications for Access History"

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Predictions"

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**[Generative Learning Developed by the Use of Learning
Studies Based on Variation Theory - How to Use a
Theoretical Tool to Design Powerful Learning Situations -
Invited Session \(0000001\) \(EISTA\)](#)**

[\(Room: Salon 19\)](#)

Organizer: Mona Holmqvist (Sweden)

Co-Organizer: Wai Ming Cheung (Hong Kong)

Cheung, Wai-Ming (Hong Kong): "Soaring Creativity across the Writing Sky through Systematic Use of Variation and Invariance"

Holmqvist, Mona; Tullgren, Charlotte; Brante, Göran (Sweden): "Defining an Object of Learning and the Forms it Appears in: The Intended, Enacted and Lived Object of Learning in a Learning Situation"

Holmqvist, Mona; Tullgren, Charlotte; Brante, Göran (Sweden): "Using Variation Theory to Analyze What Preschool Children Experience Exemplified by Wholes and Parts as the Object of Learning"

Magnusson, Andreas; Holmqvist, Mona (Sweden): "The Rock Cycle - A Complex Object of Learning"

Olteanu, Constanta (Sweden): "Defining a Non-Complex Learning Object from Preschool to Upper Secondary School"

Wennås Brante, Eva (Sweden): "Identifying Critical Aspects from Learners' Perspective"

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**[Education and Training Systems and Technologies II
\(EISTA\)](#)**

[\(Room: Salon 20\)](#)

**Co-Chair: Jeffrey Swarz (United States); Mark Marino
(United States)**

Hara, Yohei; Ohta, Tsutomu; Sano, Toshio; Ono, Shuichiro; Ono, Hiroyuki (Japan): "Categorization of Creative Processes Based on Case Study"

Kuruba, Gangappa (Botswana): "Technology and Development of

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Higher Education in Botswana"

Li, Jeen-Fong *; Hor, Shu *; Wu, Ming-Jenn *; Kuo, Chin-Guo *;
Lai, Xi-Nan *; Li, Fan ** (* Taiwan, ** Australia): "The
Relationship of Industry Experience and Research Ability of
Teachers in Automotive Engineering"

Marino, Mark; Sherman, Barbara Ann (United States): "Using
Generational Interests for Creative Computer Literacy
Instruction"

Menezes, Maria Helena; Tomé, Vitor (Portugal): "Overcoming the
Digital Gap between Students and Teachers: Teacher Training in
Media Education in Portugal"

Pitre, Abul (United States): "Closing the Technology Gap in Public
Schools through Multicultural Education"

Swarz, Jeffrey; Ousley, Anita; Johnson, Lenora; Kwon, Harry;
Magro, Adriane (United States): "CancerSPACE: An Interactive e-
Learning Tool for Healthcare Professionals"

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**[Educational Research, Theories, Practice and
Methodologies \(Virtual Presentations\) \(EISTA\)
\(Room: Room W\)](#)**

Arvide Cambra, Luisa María (Spain): "Training Ways of Arabic in
American Universities"

Bardelle, Cristina; Ferrari, Pier Luigi (Italy): "The Potential of e-
Learning Platforms to Communicate Mathematics"

Bardelle, Cristina (Italy): "Effects of Student-Computer
Interaction on Math Educational Outcomes"

Boyle, Malcolm; Williams, Brett; Brown, Ted; McKenna, Lisa;
Molloy, Liz; Lewis, Belinda (Australia): "Attitudes Towards
Patients by Undergraduate Health Students"

Gherardi, Massimo; Vianello, Gilmo; Vittori Antisari, Livia;
Zamboni, Nicoletta (Italy): "Example of a Lifelong Learning

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Programme: The Summer School in the Bologna Apennine"

Suzuki, Akiyoshi (Japan): ""The Fact Speaks for Itself":
Humanistic English Education with "e-job 100" Internet Project"