

# NAEC 2010 Program Schedule

## Riva del Garda, October 7-10, 2010

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**Registration** Room  
Thursday 04:00-6:30PM Registration Reg. Area

Registration

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**Session: 1 Business and IT innovation in China and Japan** Room  
Thursday 4:30-6:00PM Session Loggia 1

Chairman: Kiyoyuki Fukaya

Session Organizer: Kiyoyuki Fukaya

**A Role of Utilization of Information System in Chinese Companies and Its Current Situation and Problems ~Japanese and Chinese Prominent Home Electronics Manufacturers~**

Kiyoyuki Fukaya, St. Andrew's University Osaka Japan

Mu Xin, Momoyama Gakuin University Japan

**Sea\_StoRHm: A Semantically Enabled Protocol Adapter for Mapping SOAP Web Services to RESTful HTTP format**

Sean Kennedy, Athlone IT Ireland

Robert Stewart, Athlone Institute of Technology Athlone Ireland

Paul Jacob, Athlone IT Ireland

**The effects on business strategy and information system's practical use by Japanese companies, U.S companies and European companies at Chinese automobile industry**

Kiyoyuki Fukaya, St. Andrew's University Osaka Japan

Qun Xu, Momoyama Gakuin University Japan

**Suggestion for National Common Identification Exploiting by Public Companies**

Hisato Tajimi, Solution Unit Financial Solutions Business Group Fujitsu, Ltd. Tokyo Japan

Kiyoyuki Fukaya, St. Andrew's University Osaka Japan

Masaki Kubota, Solution Unit Financial Solutions Business Group Fujitsu, Ltd. Tokyo Japan

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**Session: 2 Network Security and Design Issues** Room  
Friday 8:30-10:00AM Session Loggia 1

Chairman: Michael Bartolacci

Session Organizer: Michael R. Bartolacci

**SARP Protocol, Speed Aware Reactive Protocol Design Considerations**

Kirthana Akunuri, Missouri University of Science & Technology USA

Ivan G. Guardiola, Missouri University of Science & Technology Rolla USA

**Towards Developing a New Methodology for Digital Library using Text Mining Approach**

Marwa Al Saafin, University of Northern Virginia USA

Ibrahiem M. M. El-Emary, King Abdulaziz University Saudi Arabia

Said Abu Shaar, Al Ahliyya Amman University Amman Jordan

**Are We Prepared for Cyber Armageddon?**

Galen A. Grimes, Penn State University – Greater Allegheny McKeesport USA

Margaret L. Signorella, Penn State Greater Allegheny McKeesport USA

Michael R. Bartolacci, Penn State University - Berks Reading USA

**Personal Denial of Service Attacks: A New Category of Cyber Attacks**

Michael R. Bartolacci, Penn State University - Berks Reading USA

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**Coffee Morning Break (Friday)** Room  
Friday 10:00-10:30AM Coffee Break Reg. Area

Coffee Break (Friday Morning)

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**Session: 3 Opening Session** Room  
Friday 10:30-11:30AM Opening Session Chairman: Michael Bartolacci Loggia 1

**Welcome and conference plan**

Bezalel Gavish, Southern Methodist University Dallas USA

**Hard Limits on Future Computing Capacity and Upper Bounds on Human Computing Ability**

Bezalel Gavish, Southern Methodist University Dallas USA

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**Session: 4 Wireless and Optical Networks** Room  
Friday 11:30-1:00PM Session Chairman: Robert Bestak Loggia 1

Session Organizer: Robert Bestak

**Photonic Crystal Fiber with Flattened Dispersion**

Michal Lucki, Czech Technical University Czech Republic

**RF Protective Clothing Development**

Marek Neruda, Czech Technical university 16627 Czech Republic

Lukas Vojtech, Czech Technical university Prague Czech Republic

**Optimization of Femtocell IP Backbone Security Mechanisms**

Matej Rohlik, Czech technical university in Prague Czech Republic

Tomas Vanek, Czech Technical University in Prague Czech Republic

**Network Entry Procedure in LTE-based Femtocell Network**

Melvi Ulvan, The University of Lampung Indonesia

Ardian Ulvan, Czech Technical university in Prague Prague Czech Republic

Robert Bestak, Czech Technical University in Prague 16627 Prague 6 Czech Republic

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**Lunch Friday** Room  
Friday 1:00-2:00PM Lunch Reg. Area

**Friday Lunch**

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**Session: 5 Crowdsourcing And Web2.0 In Firm Innovation Processes** Room  
Friday 2:00-3:30PM Session Chairman: Christopher Tucci Loggia 1

Session Organizer: Christopher L. Tucci

**What Makes Our Team Creative? Is It Me, Us, or the Others? – Insights from Teams in a Competitive Open Innovation Setting**

Matthias Rass, University of Erlangen - Nuremberg Nuremberg Germany

Angelika C. Bullinger, University of Erlangen-Nuremberg Germany

Kathrin M. Moeslein, University of Erlangen-Nuremberg Germany

**Intra-Corporate Crowdsourcing (ICC): Leveraging upon rank and site marginality for innovation**

J. Andrei Villarroel, Universidade Católica Portuguesa Portugal

Filipa Reis, Catholic University Lisbon Portugal

**An Exploration of Online Christmas Shopping in the UK**

Lillian Clark, University of Portsmouth UK

Peter Wright, Sheffield Hallam University UK

**Motivating firm-sponsored e-collective work**

Christopher L. Tucci, Ecole Polytechnique Federale De Lausanne Lausanne Switzerland

J. Andrei Villarroel, Universidade Católica Portuguesa Portugal

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**Session: 6 Economics and Telecommunications****Room****Friday 4:00-5:30PM Session****Chairman: Olivier Lefebvre****Loggia 1****Congestion Control Techniques of Wireless Sensor Networks: A Survey Study**

Ibrahiem M. M. El-Emary, King Abdulaziz University Saudi Arabia

Khalid S HUSSAIN, King Abdulaziz University Saudi Arabia

**Process Automation Converged Best Effort IP Network for Hydrocarbon Automation Applications**

Soloman Almadi, Brunel University UK

Ramzi El-Haddadeh, Brunel University UK

Soliman Al-Walaie, Saudi Aramco Dhahran Saudi Arabia

Masaud Jahromi, Ahlia University Bahrain

**Decision Support for Tactical Man-Machine Networking: Multiple Criteria Approach**

Alex Bordetsky, Naval Postgraduate School USA

Stefan Pickl, Universität der Bundeswehr München Germany

Roman Statnikov, Naval Postgraduate School Monterey USA

Alexander Statnikov, Vanderbilt University Nashville USA

**About Particular Two-Sided Markets: The Small-Scale Ones**

Olivier Lefebvre, France Telecom Finance Paris France

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**Dinner Friday****Room****Friday 7:30-9:30PM Dinner****Restaurant****Friday Dinner**

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**Session: 7 IP networks and e-learning****Room****Saturday 8:30-10:00AM Session****Chairman: Robert Bestak****Loggia 1**

Session Organizer: Robert Bestak

**Modern e-learning Courses for the Area of Telecommunications**

Tomas Zeman, Czech Technical university Prague Czech Republic

Jaromir Hrad, Czech Technical University in Prague Czech Republic

**M-elearning:Future of Modern Education**

Jaromir Hrad, Czech Technical University in Prague Czech Republic

Tomas Zeman, Czech Technical university Prague Czech Republic

**Sharing Multimedia Services in Interconnected IMS Domains - Enhancing User Experience**

Tomas Kovacik, Slovak university of technology Bratislava Slovakia

Ivan Kotuliak, Slovak university of technology Slovakia

**Improvements in the Availability of SIP Networks**

Jiri Hlavacek, Czech Technical University Czech Republic

Robert Bestak, Czech Technical University in Prague 16627 Prague 6 Czech Republic

**Different Ways to Identify Trends in Network Traffic**

Vojtech Ondryhal, University of Defense Czech Republic

Zuzana Vranova, University of Defense Czech Republic

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**Coffee Morning Break (Saturday)****Room****Saturday 10:00-10:30AM Coffee Break****Reg. Area****Coffee Break (Saturday)**

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**Session: 8 Plenary Presentation****Room****Saturday 10:30-11:30AM Plenary Session****Chairman: Stefan Pickl****Loggia 1****Engineering Distributed Applications with Collaborative UML Activities**

Peter Herrmann, Norwegian University of Science and Technology (NTNU) Trondheim Norway

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**Session: 9 Future Internet Challenges** Room**Saturday 11:30-1:00PM Session** **Chairman: Albena Mihovska** **Loggia 1**Session Organizer: Albena Mihovska, Sherali Zeadally**ISISEMD Evaluation Framework for Impact Assessment of ICT Pilot Services for Elderly with Mild Dementia, Living in the Community and their Relatives**

Anelia Mitseva, North Denmark EU-Office Denmark  
Carrie Beth Peterson, Aalborg University Denmark  
George Dafoulas, Municipality of Trikala Greece  
Areti Efthymiou, Athens Association of Alzheimer's Disease Greece  
Anne Abildgaard, Frederikshavn Municipality Denmark  
Silvia Bellini, Socrate Medical Italy

**e-ECTS: Electronic European Credit Transfer and Accumulation System – a case study from Macedonia**

Aleksandra Rashkovska, Jozef Stefan Institute Ljubljana Slovenia  
Roman Trobec, Jozef Stefan Institute Ljubljana Slovenia

**Values, beliefs, artifacts and avatars. Cultural issues mediated by Virtual Worlds**

Maria Rosita Cagnina, University of Udine Udine Italy  
Rubens Pauluzzo, University of Udine Udine Italy  
Michele Poian, University of Udine Udine Italy

**Spectrum Aware Network Selection for Next Generation Mobile Communication Networks**

Gorazd Kandus, Institut »Jozef Stefan« 1101 Ljubljana Slovenia  
Albena Mihovska, Aalborg University Denmark  
Elias Tragos, National Technical University of Athens Greece

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**Lunch Saturday****Saturday 1:00-2:00PM Lunch**Room  
Reg. Area

Saturday Lunch

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**Tour and Dinner Saturday****Saturday 3:30-9:00PM Tour and Dinner**Room  
TBA

Saturday Dinner (Location and Logistics to be Announced)

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**Session: 10 Tactical Networking and Decision Support** Room**Sunday 8:30-10:00AM Session** **Chairman: Stefan Pickl** **Loggia 1**Session Organizer: Stefan Pickl, Alex Bordetsky**A Linear Programming Approach for Solving the Discounted Stochastic Optimal Control Problem on Certain Networks**

Stefan Pickl, Universität der Bundeswehr München Germany  
Dmitrii Lozovanu, Institute of Mathematics and Computer Science Moldova

**Determining the Optimal Stationary Strategies of Players for Stochastic Positional Games**

Dmitrii Lozovanu, Institute of Mathematics and Computer Science Moldova  
Stefan Pickl, Universität der Bundeswehr München Germany

**Web Services for Ad Hoc and Resource-Impoverished Environments**

Dan Plakosh, Carnegie Mellon University Pittsburgh USA  
Soumya Simanta, Carnegie Mellon University Pittsburgh USA  
Ed Morris, Carnegie Mellon University Pittsburgh USA  
Bill Anderson, Carnegie Mellon University Pittsburgh USA  
Joe Siebel, Carnegie Mellon University Pittsburgh USA

**Unconventional Tactical Networking**

Alex Bordetsky, Naval Postgraduate School USA  
Eugene Bourakov, Naval Postgraduate School Monterey USA

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**Session: 11 Network Applications****Room****Sunday 8:30-10:00AM Session****Chairman: Fahad Muhaya****Loggia 2**

Session Organizer: Muhammad Khurram Khan

**Chaotic Image Encryption System using Phase-Magnitude Transformation and Pixel Substitution**

Shahram Etemadi Bourujeni, Shahid Beheshti University Iran

Mohammad Eshghi, Shahid Beheshti University Tehran Iran

**Combine Pixel-Chaotic-Shuffle and Bit-Chaotic-Rearrangement to Image Encryption**

Hsiau-Hsian Nien, National Changhua University Taiwan

Chuan-Kuei Huang, National Changhua University Taiwan

Shu-Li Hsu, Chaoyang University of Technology Changhua City Taiwan

Wei-Tzer Huang, Chienkuo Technology University Taiwan

**Implementation of Gray Image Encryption with Pixel Shuffling and Gray-level Encryption by Single Chaotic System**

Chuan-Kuei Huang, National Changhua University Taiwan

Chin-Wen Liao, National Changhua University of Education Changhua Taiwan

Shu-Li Hsu, Chaoyang University of Technology Changhua City Taiwan

Yoau-Chau Jeng, National Changhua University of Education Changhua Taiwan

**Secure Medical Images Application (SMIA)**

Fahad T. Bin Muhaya, King Saud University Saudi Arabia

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**Coffee Morning Break (Sunday)****Room****Sunday 10:00-10:30AM Coffee Break****Reg. Area****Coffee Break (Sunday)**

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**Session: 12 Communication Networks****Room****Sunday 10:30-12:00AM Session****Chairman: Robert Stewart****Loggia 1**

Session Organizer: Robert Stewart

**The Impact of Channel Interference in a Heterogeneous Wireless Mesh Campus Network**

MN Hassan, Athlone Institute of Technology Ireland

Robert Stewart, Athlone Institute of Technology Athlone Ireland

Eduardo Brito, Athlone Institute of Technology Ireland

John Allen, Athlone Institute of Technology Ireland

**VoIP performance Analysis for IEEE 802.11n Mesh Networks**

Eduardo Brito, Athlone Institute of Technology Ireland

Robert Stewart, Athlone Institute of Technology Athlone Ireland

John Allen, Athlone Institute of Technology Ireland

**Current challenges in Location Based Systems over Wi-Fi Networks**

Jackie Stewart, Athlone Institute of Technology Ireland

**Network Dimensioning using Mean Opinion Score and R Factor on the AIT campus network**

John Allen, Athlone Institute of Technology Ireland

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**Session: 13 B2B e-Commerce Infrastructure****Room****Sunday 10:30-12:00AM Session****Chairman: Ran Giladi****Loggia 2**

Session Organizer: Ran Giladi

**Service Oriented Forwarding Platform**

Ran Giladi, Ben-Gurion University of the Negev Beer-Sheva Israel

Niv Yemini, Ben Gurion University Israel

**Collaborative B2B e-Commerce Utilizing Semantic Web-Services and Smart Agents**

J. Gialelis, Industrial Systems Institute Greece

P. Chondros, Industrial Systems Institute Greece

D. Karadimas, Industrial Systems Institute Greece

Dimitrios N. Serpanos, Foundation for Research and Technology - Hellas Crete Greece

**Zone-based Key Management for MANETs**

Iman Shareef Omer, Princess Nora Bint Abdulrahman University Jordan

Thair Khmour, Al-Balqa Applied University

Salt Jordan

**A Service Layer for Providing Inter-CSP Transport Services**

Ran Giladi, Ben-Gurion University of the Negev Beer-Sheva Israel

Eliav Menachi, Ben Gurion University Israel

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**Session: 14 Closing Session****Room****Sunday 12:00-12:15 Closing Session****Chairman: Bezalel Gavish****Loggia 1****Closing Session**

Bezalel Gavish, Southern Methodist University Dallas USA