



PROGRAM GUIDE

Welcome to the

20th

20th IEEE WETICE
Conference

June 27-29, 2011

TELECOM
SudParis

A decorative banner for the 20th IEEE WETICE Conference. It features a red carpet leading to a doorway, silhouettes of people, a person holding a yellow envelope, a person sitting at a desk, and a large green tree with yellow envelopes and a person standing next to it. The text 'Welcome to the 20th' is on the left, '20th IEEE WETICE Conference' is in the center, and 'June 27-29, 2011' is below it. The TELECOM SudParis logo is in the bottom right corner.

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Organizers

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Bruno Defude, TELECOM SudParis, France

WETICE Conference Organizers

Sumitra Reddy, West Virginia University, USA

Samir Tata, TELECOM SudParis, France

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Sumitra Reddy, West Virginia University, USA

Steering Committee

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Organizing Committee Chair

Djamel Belaïd, TELECOM SudParis

Organizing Committee Members

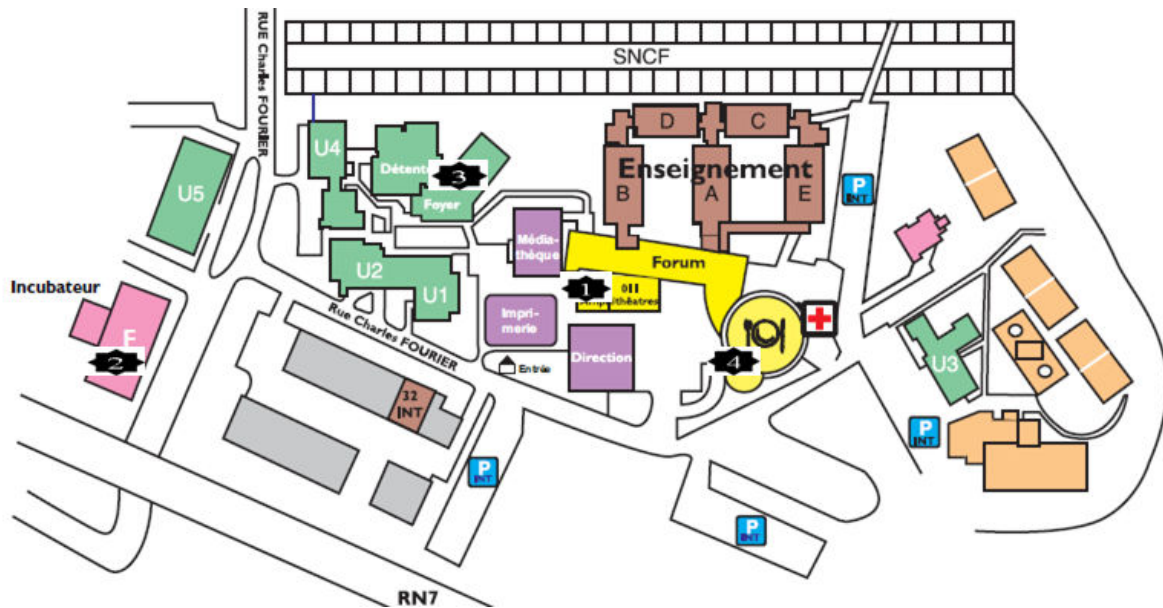
Brigitte Houassine, TELECOM SudParis, France

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Sami Yangui, TELECOM SudParis, France
Dorsaf Zekri, TELECOM SudParis, France

Local Information



Joint sessions **1**

The joint sessions are held in the Amphitheater 10.

Parallel sessions **2**

Parallel sessions are held in the “Bâtiment F” (2nd floor).

Lunches **3**

Lunches are provided in the “Foyer”.

Internet Access

A wireless connection (SSID: wifint) is accessible at:

- Amphitheater 10 (Joint sessions) **1**
- Forum (near the registration desk) **1**
- Ground and 2nd floor of “Bâtiment F” (Parallel sessions) **2**

Meeting/working Room

Room F216 (2nd floor of “Bâtiment F” **2**)

Coffee break Room

Room F214 (2nd floor of “Bâtiment F” **2**)

Welcome Reception **4**

On Monday June 27, we welcome all the participants of this year’s WETICE at the “Restaurant Administratif” of TELECOM SudParis

Banquet

The WETICE Dinner will be held on June 28, 2011 at the 58 Tour Eiffel restaurant (1st floor of Eiffel Tower). 2 Buses will be provided for the participants to reach Eiffel Tower from conference site and to return back after the diner (for the Hotels located in Evry).

Keynote #1

Speaker: Prof. Marc Shapiro, INRIA, France

Title: A Principled Approach to Eventual Consistency

About the speaker

Marc Shapiro does his research on distributed computer systems, data replication and consistency algorithms, and distributed garbage collection. He invented the proxy concept, which is now universal on the Internet. He published at SOSP and OSDI , the two most prestigious venues of the area (one of the only two French papers at both venues). He was instrumental in the creation of EuroSys, the main European venue in the area. He authored 64 international publications, 17 recognised software systems, and four patents. Dr Shapiro's research started with a PhD from Université Paul Sabatier for research performed at LAAS in Toulouse, France (1980), followed by a post-doc at MIT, and a researcher position at CMIRH. He is a researcher at INRIA since 1984. He spent a one-year sabbatical at Cornell (1993--1994), and he led the Cambridge Distributed Systems group at Microsoft Research Cambridge (UK) from 1999 to 2005. He is currently a Senior Researcher for INRIA Paris-Rocquencourt, in the Regal group, located at LIP6.

Dr. Shapiro, a Senior Member of the ACM, is a member of the ACM Europe Council. He is the founder and past chair of the EuroSys, the European professional society in systems and European Chapter of SIGOPS. He was Vice-Chair of ACM SIGOPS, the Special Interest Group on Operating Systems, from 1995 to 1999. He founded its French chapter, ASF, which he chaired from 1996 to 2000. He has been a member of several Program Committees in operating systems, distributed systems, persistent systems, and garbage collection.

Keynote #2

Speaker: Prof. W.M.P. van der Aalst, Eindhoven University of Technology, The Netherlands

Title: On the Representational Bias in Process Mining

About the speaker

Prof.dr.ir. Wil van der Aalst is a full professor of Information Systems at the Technische Universiteit Eindhoven (TU/e). Currently he is also an adjunct professor at Queensland University of Technology (QUT) working within the BPM group there. His research interests include workflow management, process mining, Petri nets, business process management, process modeling, and process analysis. Wil van der Aalst has published more than 130 journal papers, 16 books (as author or editor), 250 refereed conference/workshop publications, and 50 book chapters. Many of his papers are highly cited (he has an H-index of more than 75 according to Google Scholar, making him the Dutch computer scientist with the highest H-index) and his ideas have influenced researchers, software developers, and standardization committees working on process support. He has been a co-chair of many conferences including the Business Process Management conference, the International Conference on Cooperative Information Systems, the International conference on the Application and Theory of Petri Nets, and the IEEE International Conference on Services Computing. He is also editor/member of the editorial board of several journals, including the Distributed and Parallel Databases, the International Journal of Business Process Integration and Management, the International Journal on Enterprise Modelling and Information Systems Architectures, Computers in Industry, Business & Information Systems Engineering, IEEE Transactions on Services Computing, Lecture Notes in Business Information Processing, and Transactions on Petri Nets and Other Models of Concurrency. He is also a member of the Royal Holland Society of Sciences and Humanities (Koninklijke Hollandse Maatschappij der Wetenschappen). For more information about his work visit: www.workflowpatterns.com, www.workflowcourse.com, www.processmining.org, www.yawl-system.com, www.wvdaalst.com.

Keynote #3

Speaker: Prof. Marco Viceconti

Title: Collaborative Modeling and Simulation: the Virtual Physiological Human vision

About the speaker

Marco Viceconti (M'97) holds a Mechanical Engineering Degree from the University of Bologna and a PhD from the University of Firenze. After a period at the University of Wisconsin Madison, since 1990 he has been working at the Rizzoli Orthopaedic Institute, In Bologna, Italy, where he is Technical Director of the Medical Technology Lab, and Director of the Computational Bioengineering Lab, part of the recently established Bologna Technopole. He is also contract professor of computational biomechanics at the University of Bologna, and Scientific advisor of the BioComputing Competence Centre, also located in Bologna. His main research interests are related to the development and validation of medical technology, especially that involving simulation. In his career he published over 200 papers, 160 of which are indexed in Medline, and serves as reviewer for many international funding agencies and peer-reviewed journals. Dr. Viceconti is internationally recognised as one of the key figures in the emerging Virtual Physiological Human (VPH) community. Co-author of the first white paper on VPH, coordinator of the STEP action that compiled the seminal VPH research roadmap, animator of the World Integrative Research Initiative (WIRI), "VPH Ambassador" for the VPH Network of Excellence, coordinator of one of the three VPH integrated projects (VPHOP), he is currently chairing the Board of Directors of the forming European VPH institute.

Keynote #4

Speaker: Prof. Hai Zhuge

Title: The Complex Semantic Space Model

About the speaker

Hai Zhuge is a professor and the chief scientist of the Key Lab of Intelligent Information Processing at Chinese Academy of Sciences' Institute of Computing Technology. He was the chief scientist of the Semantic Knowledge Grid Project of the National Basic Research Program of China. He is the pioneer of the cyber-physical-socio Knowledge Grid research. His research concerns the classification-based Resource Space Model (RSM), the self-organized Semantic Link Network model (SLN), the Knowledge Flow, the scalable knowledge grid platform, and the Cyber-Physical Society. Based on RSM and SLN, he established a complex semantic space model as the unified model for managing resources in different spaces and support cyber-physical-socio intelligence. He presented over ten keynotes at international conferences on his innovations. He initiates the International Conference on Semantics, Knowledge and Grids (SKG, www.knowledgegrid.net). He is an associate editor of the Knowledge and Information Systems and the IEEE Intelligent Systems. He serves as the reviewer of several national foundations such as NSF of Austria, NSF of China, SFI of Ireland, and NSF of USA. He is the author of two monographs The Knowledge Grid and The Web Resource Space Model. He was the top scholar in relevant area according to a Journal of Systems and Software assessment report. His publications appeared in AIJ, ACM TOIT, CACM, Computer, IEEE TKDE, IEEE TPDS, IEEE TSC, and JASIST. His work was cited by journals and conferences such as ACM TOSEM, ACM TAAS, IEEE TKDE, IEEE TSE, JPDC, WWW, ICSE, CIKM and ISWC. He received 2007's Wang Xuan Award of China Computer Federation for his fundamental theory of the Knowledge Grid. He is a Distinguished Scientist of the ACM. Webpage: www.knowledgegrid.net/~h.zhuge.

WETICE-2011-General Agenda

Monday June 27, 2011

- 8:00-9:00 *On site Registration & Pick up badges*
- 9:00-9:30 *Joint session (Amphitheater 10)*
Opening of WETICE 2011
Welcome by General Chair Prof. Bruno Defude
Introduction of all track chairs and organizers
Presentation on scientific research at Télécom SudParis by the Research Director
- 9:30-10:30 *Joint session (Amphitheater 10)*
Keynote #1: Prof. Marc Shapiro
Title: A principled approach to eventual consistency
Session chair: Prof. Bruno Defude
- 10:30-11:00 *Coffee break*
- 11:15-12:30 *Parallel sessions)*
AROSA track (Room F201)
COPECH track (Room F202)
Other track participants are encouraged to attend any sessions of their choice
- 12:30-2:00 *Lunch*
- 2:00-3:40 *Parallel sessions*
AROSA track (Room F201)
COPECH track (Room F202)
Other track participants are encouraged to attend any sessions of their choice
- 3:40-4:00 *Coffee break*
- 4:00-5:45 *Parallel sessions*
CPS track (Room F201)
CKDD track (Room F202)
Other workshop participants are encouraged to attend any sessions of their choice
- 6:00-8:00 *WETICE-2011 Reception*

Tuesday June 28, 2011

- 8:00-9:00 *On site Registration & Pick up badges*
- 9:00-10:00 *Joint session (Amphitheater 10)*
Keynote #2: Prof. Wil van der Aalst
Title: Process Mining: What do organizations and people really do?
Session chair: Prof. Samir Tata
- 10:00-11:00 *Joint session (Amphitheater 10)*
Keynote #3: Prof. Marco Viceconti
Title: Collaborative Modeling and Simulation: the Virtual Physiological Human vision
Session chair: Prof. Daniele Gianni
- 11:00-11:30 *Coffee break*
- 11:30-12:45 *Parallel sessions*
ACEC track (Room F201)
CoMetS track (Room F202)
CDCGM track (Room F204)
Other track participants are encouraged to attend any sessions of their choice
- 12:45-2:15 *Lunch*
- 2:15-4:00 *Parallel sessions*
ACEC track (Room F201)
CoMetS track (Room F202)
CDCGM track (Room F204)
Other track participants are encouraged to attend any sessions of their choice
- 4:00-4:30 *Coffee break*
- 4:30-6:30 *Parallel sessions*
CT2CM track (Room F201)
CoMetS track (Room F202)
CDCGM track (Room F204)
Other track participants are encouraged to attend any sessions of their choice
- 6:30-7:30 *Transportation to Eiffel Tower*
- 7:30-8:45 *Visit of Eiffel Tower*
2 Buses will be provided for the participants to reach Eiffel Tower from conference site and to return back after the diner (for the Hotels located in Evry)
- 9:00-11:30 *WETICE-2011 Banquet*
The WETICE Dinner will be held at the 58 Tour Eiffel restaurant (1st floor of Eiffel Tower).

Wednesday June 29, 2011

- 8:00-9:00 *On site Registration & Pick up badges*
- 9:00-10:00 *Joint session (Amphitheater 10)*
Keynote #4: Prof. Hai Zhuge
Title: The Complex Semantic Space Model
Session chair: Prof. Sumitra Reddy.
- 10:00-10:30 *Coffee break*
- 10:30-10:45 *Joint session (Amphitheater 10)*
Announcement and presentation of WETICE-2012 in Dublin by Prof. M-Tahar Kechadi
- 10:45-12:45 *Joint session (Amphitheater 10)*
Final report by each track chair and best paper summary presentation by authors
Closing of WETICE-2011
Session chair: Prof. Djamel Belaïd
- 12:45-2:00 *Lunch*

Agent-based Computing for Enterprise Collaboration - ACEC

Tuesday June 28, 2011

- 11:30-12:45 *Chair:* Giacomo Cabri
Room F201 – Federico Bergenti, Enrico Franchi, Agostino Poggi. Agent-based Social Networks for Enterprise Collaboration
 – Usman Wajid, Abraham Nieva de la Hidalga, Martin Carpenter, César A. Marin. Email-based Negotiation to Facilitate Collaboration in SME Networks
 – Cesar A. Marin, Gabriel Lopardo, and Nikolay Mehandjiev. An Ecosystem-based Analysis of the Impact of an Interoperability Tool to a Business Ecosystem
- 12:45-2:15 *Lunch*
- 2:15-4:00 *Chair:* Federico Bergenti
Room F201 – Giacomo Cabri, Elton Domnori, Davide Orlandini. Implementing Agent Interoperability Between Language-Heterogeneous Platforms
 – Soumaya Slimani, Salah Baïna, Karim Baïna. Interactive ontology evolution management Using mutli-agent system: A proposal for sustainability of semantic interoperability in SOA
 – Sébastien Fournier, Alain Ferrarini, Aline Cauvin. A Cooperative Agent-Based Scheduling Repair Method for Managing Disruptions in Complex Organisations
 – Jose Maria Torres, Quirien Wijnands. Distributed Agents for Multi-Rover Autonomy
- 4:00-4:30 Coffee break
- 4:30-6:30 *Chairs:* Federico Bergenti and Giacomo Cabri
Room F212 Follow-up discussion

Adaptive and Reconfigurable Service-oriented and Component-based Applications and Architectures – AROSA

Monday June 27, 2011

- 11:15-12:30
Room F201
- Mohamed Mohamed, Sami Yangui, Samir Moalla and Samir Tata. Service micro-container for service-based applications in Cloud environments
 - Fateh Latreche and Faiza Belala. A Novel Semantic Framework for Analyzing Dynamic Web Services
 - Noura Faci, Hanane Abdeldjelil, Zakaria Maamar and Djamel Benslimane. Using Diversity to Design and Deploy Fault Tolerant Web Services

12:30-2:00 *Lunch*

- 2:00-3:40
Room F201
- Aekyung Moon. Component-based Environment Control Platform for Plant Factory
 - Juan F. Ingles-Romero, Cristina Vicente-Chicote, Brice Morin and Olivier Barais. Towards the Automatic Generation of Self-Adaptive Robotics Software: an Experience Report
 - Ji Lu, Weifang Nong and Bill Gray. Constituent Computation Oriented Architecture: Shift Binding in both Temporal and Spatial Domains
 - Ammar Memari, Benjamin Wagner Vom Berg and Jorge Marx Gómez. An Agent-based Framework for Adaptive Sustainable Transportation

3:40-4:00 Coffee break

Convergence of Distributed Clouds, Grids and their Management – CDCGM

Tuesday June 28, 2011

- 11:30-12:45 *Session 1: New Computing Models*
Room F204 – *Introductions*
 – G. Morana and R. Mikkilineni. Scaling and Self-repair of Linux Based Applications Using a Novel Distributed Computing Model Exploiting Parallelism
 – R. Mikkilineni, I. Seyler. Parallax – A New Operating System Prototype Demonstrating Service Scaling and Self-Repair in Multi-core Servers
 – *Discussion on Computing Models*
- 12:45-2:15 *Lunch*
- 2:15-4:00 *Session 2: Computing Models, Cloud Computing and Grids:*
Room F204 – F. Tusa, A. Celesti and R. Mikkilineni. AAA in a Cloud-Based Virtual DIME Network Architecture (DNA)
 – M. Rak, A. Cuomo and U. Villano. CHASE: An Autonomic Service Engine for Cloud Environments
 – F. Messina, G. Pappalardo, and C. Santoro. Exploiting the Small-World Effect for Resource Finding in P2P Grids/Clouds
 – F.C. Teixeira, M.J. Santana, R.H.C. Santana, S.M. Bruschi, and J.C. Estrella. WSBC: Web Services Based Classloader
 – F. C. Teixeira, M. J. Santana, R. H. C.
 – *Discussion on Cloud Computing and Grids*
- 4:00-4:30 Coffee break
- 4:30-6:30 *Session 3: Short Papers:*
Room F204 – F. C. Teixeira, M. J. Santana, R. H. C. Santana, S. M. Bruschi, J.C. Sam Dog: A Java Sandbox Using a Cascading Access, Control List Approach
 – F. Cuttone, M. Bandieramonte, A. Di Stefano, G. Morana. Estrella, Managing Dependability in Distributed System
 – Douglas D.J. de Macedo, Miriam A.M. Capretz, Thiago Coelho Prado, Aldo von Wangenheim, and M.A.R. Dantas. An improvement of a different approach for medical image storage
 – *Discussion*
 – *Concluding Remarks*

Cooperative Knowledge Discovery & Data Mining – CKDD

Monday June 27, 2011

- 4:00-5:45
Room F202
- Jean-Francois Laloux, Nhien An Le Khac and M-Tahar Kechadi. Efficient Distributed Approach for Density-Based Clustering.
 - Nikolaos Mallios, Elpiniki Papageorgiou and Michael Samarinas. Comparison of Machine Learning Techniques using the WEKA environment for Prostate CancerTherapy Plan.
 - Fariba Khademolghorani, Ahmad Baraani and Kamran Zamanifar. A new approach for mining optimized association rules by improving the gravitational search algorithm
 - Liyong Zhao, Chongchong Zhao, Jingqin Pang, Jianyi Huang. Sensitive Topic Detection Model Based on Collaboration of Dynamic Case Knowledge Base

Collaborative Modeling and Simulation – CoMetS

Tuesday June 28, 2011

- 11:30-12:45 *Session 1: Applications*
Room F202 – Volker Schaus, Karsten Großekathofer, Daniel Ludtke, and Andreas Gerndt. Collaborative Development of a Space System Simulation Model
– Jesús Gonzalo and Carmen Salguero. On the development of a digital meteorological model for simulating future air traffic management automation
– Nazli Choucri, Daniel Goldsmith and Toufic Mezher. Modeling Renewable Energy Readiness: The UAE Context
- 12:45-2:15 *Lunch*
- 2:15-4:00 *Session 2: Simulator Life-cycle Support: Design, Reuse, Integration and Testing*
Room F202 – Laurent Capocchi, Jean-François Santucci, Bastien Poggi and Celine Nicolai. DEVSimPy: A Collaborative Python Software for Modeling and Simulation of DEVS Systems
– Henric Andersson, Magnus Carlsson, and Johan Ölvander. Towards Configuration Support for Collaborative Simulator Development: A Product Line Approach in Model Based Systems Engineering
– Sergey Bolshchikov, Aharon Renick, Shay Mazor, Judith Somekh, and Dov Dori. OPM Model-Driven Animated Simulation with Computational Interface to Matlab-Simulink
– Tobias Lorenz, Martin Baumann, Klaus Jaschke, and Frank Koster. A Modular and Scalable Application Platform for Testing and Evaluating ITS Components
- 4:00-4:30 Coffee break
- 4:30-6:30 *Session 3: Modeling for Collaboration*
Room F202 – Thorsten Dollmann, Constantin Houy, Peter Fettke, and Peter Loos. Collaborative Business Process Modeling with CoMoMod: A Toolkit for Model Integration in Distributed Cooperation Environments
– Kais Klai and Walid Gaaloul. Petri net modeling and verification of transactional workflows
– Mathias Kadolsky and Raimar J. Scherer. Formal Description of a Generic Multi-Model Sebastian Fuchs
– Laor Boongasame and Farhad Daneshgar. An Information-Sharing Platform for Buyer Coalition: Introducing the Awareness-based Buyer Coalition (ABC) System

Collaboration Tools for Preservation of Environment and Cultural Heritage – COPECH

Monday June 27, 2011

- 11:15-12:30
Room F202
- Kenji Oguni, Tomohiro Miyazaki and Naoki Yurimoto. Wireless Sensor Network for Post-seismic Building-wise Damage Detection
 - Marco Petracca, Remo Pomposini, Francesco Vatalaro and Remo Pomposini. Dynamic Spectrum Access Techniques for Preservation of Environment and Cultural Heritage
 - Jingcheng Zhang, Allan Hyunh, Qin-Zhong Ye, Shaofang Gong and Jingcheng Zhang. CultureBee – A Fully Wireless Monitoring and Control System for Protecting Cultural Heritage
- 12:30-2:00 *Lunch*
- 2:00-3:40
Room F202
- Michela Basili, Anna Sinopoli and Michela Basili. A Semi-analytical Approach for the Contact Dynamics of Ancient Columns Modeled as Rigid Blocks
 - Yu Bao, Guosun Zeng and Tianjie Cao. Resisting Collusion by Game in Culture Web
 - Emiliano Paglia and Alessandra Basili. NGNs: a Platform Enhancing Technological Multimedia Services in Cultural Heritage Innovations
 - Gilles Martinet. Sustainability of Ancient Buildings Through the Diagnosis of their Materials
- 3:40-4:00 Coffee break

Cyber Physical Society with SOA, BPM and Sensor Networks – CPS

Monday June 27, 2011

- 4:00-5:45
Room F202
- Eun-Jun Yoon and Kee-Young Yoo. A New Biometric-based User Authentication Scheme without using Password for Wireless Sensor Networks
 - Bela Genge and Christos Siaterlis. Using Soft Real-Time Simulation in a Hybrid Environment for Cyber-Physical Security Experiments
 - Rui-Hua Di, Ting Wang, and Hu Wang. Analyzing and Establishing Data Model of SOA-based Distributed Application System
 - Feng Gao, Maciej Zaremba, Sami Bhiri, and Wassim Derguerch. Extending BPMN 2.0 with Sensor and Smart Device Business

Collaborative Technology for Coordinating Crisis Management - CT2CM

Tuesday June 28, 2011

- 4:30-6:30
Room F201
- *Introducing the CTC2M Track* by Chihab HANACHI
 - Jörn Franke, François Charoy and Cedric Ulmer, Handling Conflicts in Autonomous Coordination of Distributed Collaborative Activities
 - Daouda Kamissoko, François Peres and Pascale Zaraté, Infrastructure Network Vulnerability
 - Omar Gaci and Hervé Mathieu, Deployment of Communicating Objects for A Dynamic Risk Management in Warehouse of Dangerous Goods
 - Claudio Sapateiro, Antonio Ferreira and Pedro Antunes, Evaluating the Use of Mobile Devices in Critical Incidents Response: A Microworld Approach
 - Lydia Kraus, Mladen Stanojevic, Nikola Tomasevic and Vuk Mijovic, A Decision Support System for Building Evacuation based on the EMILI SITE environment
 - *Concluding the track.*