

# PROGRAM OVERVIEW

Time	Tuesday, Sept. 8	Wednesday, Sept. 9	Thursday, Sept. 10	Friday, Sept. 11
8:45 –		Conference Registration		
9:00 – 9:30	IMS <i>f2f</i> Meeting	Opening Session		
9:30 – 10:30		Keynote Talk I	Keynote Talk 2	Keynote Talk 3
10:30 – 11:00		Coffee Break	Coffee Break	Coffee Break
11:00 – 13:00		Technical Sessions 1A, 1B	Technical Session 4A	Technical Session 5A
13:00 – 14:00		Lunch	Lunch	Lunch
14:00 – 15:30		Technical Sessions 2A, 2B, IMS Panel	WG 6.8 Meeting	Technical Session 6A
15:30 – 16:00		Coffee Break		
16:00 – 17:30		Technical Sessions 3A, 3B	Trip to Malbork Castle	Conference Close & Farewell
19:00 –	Welcome Reception	Get Together	Gala Dinner	

# DETAILED PROGRAM

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## Tuesday, Sept. 8

**IMS f2f Meeting (9:00-17:30, Room 130 - old ETI building)**

**Welcome Reception (19:00-20:30)**

## Wednesday, Sept. 9

**Opening Session (9:00-9:30, Auditorium)**

**Keynote Talk I (9:30-10:30, Auditorium)**

**Chair:** Jerzy Konorski

**Theodore Sizer** (Bell Laboratories): *Wireless Vision: Research Challenges and Opportunities.*

Dr. Theodore Sizer graduated from Amherst College, Magna Cum Laude and received his Masters and Doctorate from the Institute of Optics at the University of Rochester. He is the author of 43 patents, 16 patents pending and over 50 refereed publications. He is a member of the IEEE and OSA.

**Coffee Break (10:30-11:00)**

**Session IA: IMS Interoperability  
(11:00-13:00, Auditorium)**

**Chair:** Timo Lahnalampi

*Presence Management and Merging Presence Information for NGN Services*

Sebastian Schumann, Eugen Mikoczy, Pavol Podhradsky (Slovak Technical University, SK); Feliciano Muruchi, Michael Maruschke (Hochschule für Telekommunikation Leipzig, DE)

*Interoperability of IP Multimedia Systems (IMS): The NetLab Approach*

Andrés Marín-López, Daniel Díaz-Sánchez, Florina Almenárez-Mendoza (University Carlos III of Madrid, ES); Francisco Rodríguez García, Joaquín López Rizaldos, Alfonso Cubero Vega (Telefónica I+D, ES); Itziar Ormaetxea (Software Quality Systems, ES); Juan Luis Lopez, Sergio Fernández, Fernando Ortigosa (Ericsson Network Services, ES); Ivan Kotuliak (Slovak University of Technology, SK); Eugen Mikoczy (Slovak Telekom, SK); Timo Lahnalampi (Digital Media Service Innovations, FI); Timo Koski, Sussana Avessta (University of Turku, FI)

**WMNC 2009**

2<sup>nd</sup> Joint IFIP Wireless and Mobile Networking Conference

*A General IMS Registration Protocol for Wireless Networks Interworking*

Daniel Díaz-Sánchez (Universidad Carlos III de Madrid, ES); Davide Proserpio (Universidad Carlos III de Madrid, ES); Andrés Marín-López (University Carlos III of Madrid, ES); Florina Almenárez-Mendoza (Universidad Carlos III de Madrid, ES); Peter Weik (Fraunhofer FOKUS, DE)

*Analysis of Session Establishment Signaling Delay in IP Multimedia Subsystem*

Melvi Ulvan, Robert Bestak (Czech Technical University, CZ)

**Session 1B: QoS and Multimedia Support  
(11:00-13:00, Room 105)**

**Chair:** Pedro Cuenca

*Adaptive Reservation MAC Protocol for Voice Traffic in Wireless Ad-hoc Networks*

Ghalem Boudour (UPS, FR); Cedric Teyssie (IRIT - Paul Sabatier University, FR); Zoubir Mammeri (Paul Sabatier University, FR)

*On the Shortcoming of EDCA Queues in the Presence of Multiservice Traffic*

Agnieszka Brachman (Silesian University of Technology, PL); Lukasz Chrost (Silesian University of Technology, PL)

*Accessing of Large Multimedia Content on Mobile Devices by Partial Prebuffering Techniques*

Ondrej Krejcar, Dalibor Janckulik, Leona Motalova (Technical University of Ostrava, CZ)

*Performance Analysis of Multicast Video Streaming in IEEE 802.11 b/g/n Testbed Environment*

Aleksander Kostuch (Gdansk University of Technology Poland, PL); Krzysztof Gierlowski (Gdansk University of Technology, PL); Jozef Wozniak (Gdansk University of Technology, PL)

**Lunch (13:00-14:00)**

**Session 2A: Network Design  
(14:00-15:30, Auditorium)**

**Chair:** Zoubir Mammeri

*Optimization of Frame Structure for WiMAX Multi-hop Networks*

Pavel Mach (Czech Technical University in Prague, CZ);  
Robert Bestak (Czech Technical University in Prague, CZ)

*Robust Transmission of H.264/AVC Video Using 64-QAM and Unequal Error Protection*

Ahmed Abdurrrhman, Michael E. Woodward, Vasileios Theodorakopoulos (Bradford University, UK)

*An Optimization Approach to Coexistence of Bluetooth and Wi-Fi Networks Operating in ISM Environment*

Tomasz Klajbor (Gdansk University of Technology, PL);  
Jacek Rak (Gdansk University of Technology, PL); Jozef Wozniak (Gdansk University of Technology, PL)

**Session 2B: Sensor Networks  
(14:00-15:30, Room 105)**

**Chair:** Ioanis Nikolaidis

*Performance Analysis of IEEE 802.15.3 MAC Protocol with Different ACK Policies*

S. Mehta, K. S. Kwak (Inha University, KR)

*Efficient Sensor Data Gathering and Resilient Communication for Rescue Scenarios*

Daniele Munaretto (DOCOMO Euro-Labs, DE); Chunlei An (University of Bremen, DE); Joerg Widmer (DOCOMO Euro-Labs, DE); Andreas Timm-Giel (University of Bremen Mobile Research Center, DE)

*Self-organizing Wireless Monitoring System for Containers*

Ryszard Katulski (Gdansk University of Technology, PL);  
Jacek Stefanski (Gdansk University of Technology, PL);  
Jaroslaw Sadowski (Gdansk University of Technology, PL);  
Slawomir Ambroziak (Gdansk University of Technology, PL);  
Bozena Miszewska (Gdansk University of Technology, PL)

## **IMS Interoperability Panel (14:00-15:30, Room 106)**

**Chair:** Andrés Marín- López

### **Coffee Break (15:30-16:00)**

## **Session 3A: Trust Management and Competitive Networking (16:00-17:30, Auditorium)**

**Chair:** Robert Bestak

### *Enabling SAML for Dynamic Identity Federation Management*

Patricia Arias Cabarcos (Universidad Carlos III de Madrid, ES);  
Florina Almenárez Mendoza (Universidad Carlos III de Madrid, ES);  
Andrés Marín-López (University Carlos III of Madrid, ES);  
Daniel Díaz-Sánchez (Universidad Carlos III de Madrid, ES)

### *DST-Based Detection of Non-cooperative Forwarding Behavior of MANET and WSN Nodes*

Jerzy Konorski (Gdansk University of Technology, PL); Rafal Orlikowski (R&D Marine Technology Centre S.A., PL)

### *Competitive Spectrum Sharing in Wireless Networks: A Dynamic Non-cooperative Game Approach*

Omar Raouf, Zaineb Al-Banna, H.S. Al-Raweshidy (Brunel University, UK)

## **Session 3B: Location Algorithms I (16:00-17:30, Room 105)**

**Chair:** Ryszard Katulski

### *A Novel AoA Positioning Solution for Wireless Ad Hoc Networks Based on Six-Port Technology*

Peter Brida (University of Zilina, SK); Norbert Majer (University of Zilina, SK); Jan Duha (University of Zilina, SK); Peter Cepel (Siemens Program and System Engineering s.r.o., SK)

### *On the Impact of Node Placement and Profile Point Selection to Indoor Localization*

Israat Tanzeena Haque (University of Alberta, CA); Ioanis Nikolaidis (University of Alberta, CA); Pawel Gburzynski (University of Alberta, CA)

### *Hyperbolic Position Location Estimation in the Multipath Propagation Environment*

Jacek Stefanski (Gdansk University of Technology, PL)

## **Get Together (19:00-22:00)**

## **Keynote Talk 2 (9:30-10:30, Auditorium)**

**Chair:** Daniel Diaz Sanchez

**Daniel Donhefner** (Nokia Siemens Networks): *Unified Charging and Billing Solution. Unified – Next Generation of Charging Systems in Mobile Networks.*

Daniel Donhefner is the R&D Head of Charge AtOnce Select at Nokia Siemens Networks. His interests and activities include resource management (tasks assignment, motivation), knowledge management, cooperation with departments all over the world, team building, and budget planning and controlling.

## **Coffee Break (10:30-11:00)**

## **Session 4A: Evolution of 3G, 3G/4G and Future Generation Systems (11:00-13:00, Auditorium)**

**Chair:** Dominik Rutkowski

*Efficient Assignment of Multiple E-MBMS Sessions Towards LTE*  
Antonios Alexiou (University of Patras, GR); Christos Bouras (University of Patras, GR); Vasileios Kokkinos (University of Patras and RACTI, GR)

*CATS: Context-Aware Triggering System for Next Generation Networks*

José Simoes (Fraunhofer FOKUS, DE); João Gonçalves (PT Inovação, PT); Telma Mota (Portugal Telecom, PT); Thomas Magedanz (Fraunhofer FOKUS, DE)

*Performance Analysis of Uplink Packet Schedulers in Cellular Networks with Relaying*

Desislava Dimitrova (University of Twente, NL); Hans van den Berg (University of Twente, NL); Geert Heijenk (University of Twente, NL)

*A Method of the UMTS-FDD Network Design Based on Universal Load Characteristics*

Slawomir Gajewski (Gdansk University of Technology, PL)

## **Lunch (13:00-14:00)**

## **WG 6.8 Meeting (14:00-15:00)**

## **Trip to Malbork Castle (15:00-23:00)**

## **Gala Dinner (19:00-21:30)**

### **Keynote Talk 3 (9:30-10:30, Auditorium)**

**Chair:** Andrzej Pach

**Nicolas Courtois** (University College London): *Smart Cards: A Security Stronghold in Networked Mobile Equipment.*

Nicolas Courtois is a Senior Lecturer at University College London where he teaches modules about cryptography and information security. Previously he was employed by Gemalto, the world's largest manufacturer of SIM cards and smart cards. He has published some 40 papers in cryptology and filed 6 patents on practical applications of cryptology and smart cards.

### **Coffee Break (10:30-11:00)**

### **Session 5A: Location Algorithms II (11:00-13:00, Auditorium)**

**Chair:** Andrzej Stepnowski

*Dynamic Localized Broadcast Incremental Power Protocol and Lifetime in Wireless Ad Hoc and Sensor Networks*

Julien Champ (LIRMM, FR); Anne-Elisabeth Baert (LIRMM, FR); Vincent Boudet (University of Montpellier, FR)

*Information-Importance Based Communication for Large-Scale WSN Data Processing*

Ahmad Sardouk (University of Technology of Troyes, FR); Rana Rahim-Amoud (UTT, FR); Leïla Merghem-Bouahia (UTT, FR); Dominique Gäiti (University of Troyes, FR)

*Considerations for RFID-based Indoor Simultaneous Tracking*  
Apostolia Papapostolou (Telecom Sudparis, FR); Hakima Chaouchi (Telecom Institute, FR)

### **Special Session: Internet of Things (8:45-13:00, Room 105)**

Sponsored by: ANR SUN project, Telecom Institute, FR, and IFIP WMNC 2009, PL

**Chair:** Hakima Chaouchi

*Welcome and Opening session (08:45-9:00)*  
Hakima Chaouchi (Telecom Institute, FR)

*Building Wireless Sensor Networks: Reliability, Standards and Other Practical Aspects with onsite WSN programming Demo (9:00-10:15)*

Thomas Watteyne (Berkeley University, US)

*HIP Tags, Privacy Issues for the Internet of Things (10:15-11:05)*

Pascal Urien (Telecom Institute, FR)

### **Coffee break (11:05-11:15)**

*On RFID Usage for Mobility Improvement (11:15-11:45)*

Hakima Chaouchi (Telecom Institute, FR)

*RFID, Technologies and Middleware (11:45-12:15)*

Nathalie Mitton (INRIA Lille, FR)

*The Internet of Things - Setting Standards (12:15-12:45)*

Keith Mainwaring, (Cisco Systems, SE)

Discussion and Wrap-up (12:45-13:00)

### **Lunch (13:00-14:00)**

### **Session 6A: Handover Mechanisms (14:00-16:00, Auditorium)**

**Chair:** Jozef Wozniak

*The Efficiency Performance on Handover's Scanning Process of IEEE802.16m*

Ardian Ulvan and Robert Bestak (Czech Technical University in Prague, CZ)

*Optimized Handover Schemes over WiMAX*

Zina Jerjees, H.S. Al-Raweshidy, Zaineb Al-Banna (Brunel University, UK)

*Data Collection for Heterogeneous Handover Decisions in Beyond 3G Networks*

Marc Fouquet (Technische Universität München, DE); Christian Hoene (University of Tübingen, DE); Morten Schlaeger (Nokia SiemensNetworks GmbH & Co KG, DE); Georg Carle (Technische Universität München, DE)

*A Cross-layer User Centric Vertical Handover Decision Approach based on MIH Local Triggers*

Maaz Rehan (Muhammad Ali Jinnah University, Islamabad, PK); Muhammad Yousaf (CASE, Islamabad, PK); Amir Qayyum (M. A. Jinnah University, PK); Shahzad Malik (COMSATS Institute of Information Technology, PK)

**Conference Close & Farewell (16:00, Auditorium)**

# **SOCIAL PROGRAM**

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## ***Welcome Reception (8.09.2009)***

The conference Welcome Reception will take place on September 8, 2009 at 19:00 in the new ETI building (building No. 22 on the campus map on page 19). Attendance is included in the registration fee.

## ***Get Together (9.09.2009)***

The conference Get Together will take place on September 9, 2009 at 19:00 in Dwór Artusa in the Gdansk Old Town, 43/44 Długi Targ Str. Attendance is included in the registration fee.

## ***Trip to Malbork + Gala Dinner (10.09.2009)***

The trip to Malbork, including the sightseeing of the Malbork Castle followed by the Gala Dinner in the Gothic Café & Restaurant (Malbork Castle) at 19:00, will take place on September 10, 2009. Coach transfer will be provided. Pickup: 15:00, new ETI building. Return to Gdansk is planned around 23:00. Attendance is included in the registration fee.