



ROME, ITALY
26 - 29 OCTOBER 2015



SUMMIT PROGRAM
WELCOME TO THE WORLD OF INNOVATION

NH Roma Midas hotel, Via Aurelia, 800, 00165 Rome, Italy
Wi-Fi Username: nh Password: wifi

CO-LOCATED CONFERENCES:

- EAI INTERNATIONAL CONFERENCE ON SMART OBJECTS AND TECHNOLOGIES FOR SOCIAL GOOD
- 2ND EAI INTERNATIONAL CONFERENCE ON SAFETY AND SECURITY IN INTERNET OF THINGS
 - 2ND EAI INTERNATIONAL CONFERENCE ON MOBILITY IN IOT
- EAI INTERNATIONAL CONFERENCE ON CLOUD, NETWORKING FOR IOT SYSTEMS
- EAI INTERNATIONAL CONFERENCE ON INTEROPERABILITY IN IOT
- 2ND EAI INTERNATIONAL CONFERENCE ON IOT TECHNOLOGIES FOR HEALTHCARE
 - 2ND EAI INTERNATIONAL CONFERENCE ON IOT AS A SERVICE
- 6TH EAI INTERNATIONAL CONFERENCE ON SENSOR SYSTEMS AND SOFTWARE
- 2ND EAI INTERNATIONAL CONFERENCE ON COGNITIVE INTERNET OF THINGS TECHNOLOGIES
- 2ND EAI INTERNATIONAL CONFERENCE ON SOFTWARE DEFINED AND VIRTUALIZED FUTURE WIRELESS NETWORKS
- EAI INTERNATIONAL CONFERENCE ON CYBER PHYSICAL SYSTEMS, IOT AND SENSORS NETWORKS

PRESENTED BY

European Alliance for Innovation and CREATE-NET with the patronage
of the European Commission Representation in Italy.





IoT is the heart of Innovation and has an enormous impact on the way we do business. By 2020, 50 billion devices will be connected and the market worth € 14 trillion. New approaches to Innovation are needed! Ideas and research have to be transformed into commercial value propositions.

The IOT360° is a unique event bringing a 360° degree perspective on IoT-related projects and activities and aiming to coach involved people on the whole path between research to innovation and all the way through to commercialisation of ideas, projects and technologies.

The Summit is a powerful and inspirational event that brings together industry representatives, makers, vendors, experts, developers and others to plan, learn, network, collaborate, strategize and more effectively tap into the immense potential of the IoT domain.

The event offers a wide set of activities among which tutorials, presentations, panels and keynotes covering new methods to accelerate in the market, monetize technologies & IPR and raise funds in Europe. Structured professional networking to turn cutting edge into business through exploitation and commercialization opportunities is a key priority.

CO-LOCATED CONFERENCES



SUMMIT SPEAKERS

**Mischa Dohler**

Chair Professor, King's
College London

**Francesco Profumo**

Prof. of Electrical
Machines, former
Minister of Education
Italy

**Gabi Zodik**

DG, Software
and Services Haifa
Research Lab

**Francesca Bria**

Senior Project Lead
Nesta Innovation Lab

**Stefan Bungart**

European Business
Development Leader
for Internet
of Everything, CISCO

**Sarah Campbell**

Founder and creative
director- SenseLab
London

**Marco Carugi**

Senior Expert,
Independent Consultant

**Tiziana Catarci**

Director of the ECONA
Research Center

**Somnath Chatterjee**

SharePract & Knowledge
Management
Consortium

**Imrich Chlamtac**

President of European
Alliance for Innovation
and CREATE-NET

**Giulio Coraggio**

Partner DLA Piper,
Technology lawyer

**Maurizio Dècina**

Emeritus Professor at
the Politecnico di Milano

**Afonso Ferreira**

European Commission,
DG CONNECT

**Ana-Maria Fimin**

Project Officer European
Commission

**Antonio Fonduca**

Venturing Director
at BillerudKorsnäs

**David Defrenne**

CTO & Co-Founder of
Speaky, a social network
to learn languages online

**Pierangelo Garino**

Project Manager
Telecom Italia

**Claudio Germinario**

Partner of Società
Italiana Brevetti (SIB)

**Raffaele Giaffreda**

Head of Smart IoT
research group,
CREATE-NET

**Paola Baruchelli**

Funding area,
CREATE-NET



Francesco Loriga

CEO at LAit (Lazio Region in-house Company for ICT and Innovation)



Maurizio Decina

Emeritus Professor at the Politecnico di Milano



Thomas Meyer

Partner and Co-founder LDS



Michael Mulquin

Global Smart Cities Standards Expert



Claes Pantzar

Search-a-patent AB, Marketing manager



Christin Pfeiffer

Secretary General at INSME



Maurizio Pilu

Executive Director, Collaborative R&D at Digital Catapult



Amir Raveh

Founder of British Investments House "MG EQUITY Partners"



Antonio F. Skarmeta

Founder and CEO of Deliver Change Ltd



Jonathan Steel

Founder and CEO of Deliver Change Ltd



Shmuel Ur

ur-innovation.com



Andrea Vitaletti

Assistant professor, University of Rome La Sapienza



Andrew Watson

Technical Director, Object Management Group



Antonio Nicita

Antonio Nicita is Commissioner of the Italian regulatory authority (AGCOM) and Professor of Economic Policy at the Department of Economics and Law at Sapienza University of Rome



Sandro Zilli

Business Coach, Bizpepper.it



Hamid Falaki

Technical Architect – Communications Digital Catapult Centre



Fabio Antonelli

CREATE-NET



Joaquin Fernandez

Business Development Director at Irdetec Consulting



Fabrizio Sillano

Business Development Manager, E-Level Communication



Iacopo Carreras

CEO, U-Hopper



Liljana Gavrilovska
 Head of the Institute of Telecommunications at the Faculty of Electrical Engineering and Information Technologie



Andrea Ranalli
 Energy@home Standardization Committee Chairman



Dagmar Caganova
 Assistant Professor at Slovak University of Technology in Bratislava



Wojciech Piotrowicz
 Member of the Faculty of Management, University of Oxford at Saïd Business School and Wolfson College



Massimo Villari
 Associate Professor in Computer Engineering at University of Messina (Italy)



Benny Mandler
 The coordinator of the FP7 project COMPOSE

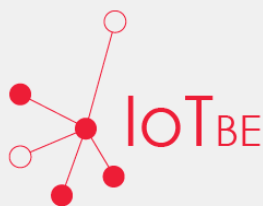


Periklis Chatzimisios
 Alexander TEI of Thessaloniki, Greece

PARTNERS



MEDIA PARTNERS



IOT360° SUMMIT PROGRAM

DAY 1 - 27 OCTOBER 2015

09:00 - 10:30	<p>KEYNOTE SPEAKERS</p>	<p>FRANCESCO PROFUMO Professor of Electrical Machines of the Politecnico Torino, former Minister of Education Italy</p> <p>GABI ZODIK Department Group Manager of the IBM Haifa Research Lab Mobile and Industry Solution Dept.</p> <p>MISCHA DOHLER Chair Professor, King's College London</p>
10:30 - 11:00	<p>NETWORKING COFFEE BREAK</p>	
11:00 - 12:30	<p>NATIONAL IOT INITIATIVES IN EUROPE</p> <p>Overview of national initiatives focusing on funding IoT related projects, information about possibilities to engage IoT technology and expertise in the context of national / EU projects.</p>	<p>ANDREA RANALLI Energy@home Standardization Committee Chairman</p> <p>HAMID FALAKI Technical Architect – Communications Digital Catalyst Centre</p> <p>ANTONIO NICITA Antonio Nicita is Commissioner of the Italian regulatory authority</p> <p>MAURIZIO DÈCINA Emeritus Professor at the Politecnico di Milano</p>
12:30 - 13:30	<p>LUNCH</p>	
13:30 - 14:30	<p>PRIVACY AND SAFETY</p> <p>Legal issues accruing from use of IoT, information about existing and “future” legislation. Discussion of privacy protection from the technological side. Speculation about future challenges connected to privacy and safety.</p>	<p>RAFFAELE GIAFFREDA Head of Smart IoT research group, CREATE-NET</p> <p>FRANCESCA BRIA Senior Project Lead Nesta Innovation Lab</p> <p>GIULIO CORAGGIO Partner DLA Piper, Technology lawyer</p> <p>MISCHA DOHLER Chair Professor, King's College London</p>
14:30 - 15:30	<p>IOT & FUTURE CITIES</p> <p>Experts from cities, utilities, manufacturing, transport and other infrastructure providers will share what they successfully implemented and what plans they have for further optimizations.</p>	<p>AFONSO FERREIRA European Commission Directorate General for Communications Networks, Content and Technology (DG CONNECT) Trust & Security Unit</p> <p>SARAH CAMPBELL Founder and creative director- SenseLab London</p> <p>MICHAEL MULQUIN Global Smart Cities Standards Expert, member of the ISO Technical Committee 268, Co-Chair Advisory Group British Standards Institution</p> <p>JONATHAN STEEL Founder and CEO of Deliver Change Ltd</p>
15:30 - 16:00	<p>NETWORKING COFFEE BREAK</p>	

16:00 - 17:00

PERSPECTIVES ON IOT

Industry players and their approach to IoT.

GABI ZODIK

Department Group Manager of the IBM Haifa Research Lab Mobile and Industry Solution Dept.

STEFAN BUNGART

European Business Development Leader for Internet of Everything, CISCO

17:00 - 18:00

STANDARDISATION IN IOT

Too many standards for IoT? Which are the ones being actually used for developing IoT applications?

ANDREW WATSON

Technical Director, Object Management Group

MARCO CARUGI

Senior Expert, Independent Consultant (telecommunication technologies and associated standardization)

RAFFAELE GIAFFREDA

Head of Smart IoT research group, CREATE-NET

COCTAIL RECEPTION**DAY 2 - 28 OCTOBER 2015**

09:00 - 09:45

OPENING**CHRISTIN PFEIFFER**

Secretary General at INSME

TOMAS DUSICKA

Community manager , eai

09:45 - 10:30

STRATEGIC FORUM MEETING

The session will present the vision of the Institutional members within the Strategic Forum on the latest developments in IoT. In particular, the discussion will be focused on the convergence of scientific community and industry in supporting technology transfer in the area. In a framework supported by EAI, Senior Institutional members will present their views on future collaboration strategies targeting an efficient technology transfer.

MASSIMO VILLARI

Associate Professor in Computer Engineering at University of Messina (Italy)

FRANCESCO LORIGA

CEO at LAit (Lazio Region in-house Company for ICT and Innovation)

ANDREA VITALETTI

Assistant professor, University of Rome La Sapienza

TIZIANA CATARCI

Sapienza University of Rome; Director of the ECONA Research Center

10:30 - 11:00

NETWORKING COFFEE BREAK

11:00 - 12:30

TECHNOLOGY FORECAST

IoT experts and professionals have put their heads together in Forecaster – EAI's research community program – to figure out what the future of IoT looks like. In this concluding panel, Benny Mandler and Fabio Antonelli will meet to discuss their ideas, predictions and analyses. Join us to discover tomorrow's trends and hot topics of the Internet of Things.

FABIO ANTONELLI

CREATE-NET

BENNY MANDLER

The coordinator of the FP7 project COMPOSE

LILJANA GAVRILOVSKA

Head of the Institute of Telecommunications at the Faculty of Electrical Engineering and Information Technologies

12:30 - 14:00

LUNCH

14:00 - 15:30

BIRDS OF A FEATHER

The Birds of a Feather program allows EAI Members and summit participants to discuss the following topics during moderated round table discussions:

A Look at Innovation in Industrial Enterprises in Relation to Inter-cultural Management
Moderator: Dagmar Caganova

Demystifying Big Data Myth
Moderator: Somnath Chatterjee

Internet of Things in Retail Supply Chains – future, impact and new business models
Moderator: Wojciech Piotrowicz

IoT platforms: the device, edge, cloud trio
Moderator: Benny Mandler

It's time to hide the technology: why IoTs need to meet Clouds and Networks of the Future
Moderator: Massimo Villari

Smart Cities: Sustainable Urban Environment and Efficient Quality of Life
Moderator: Liljana Gavrilovska

Standardization for Internet of Things
Moderator: Periklis Chatzimisios

DAGMAR CAGANOVA

Assistant Professor at Slovak University of Technology in Bratislava

WOJCIECH PIOTROWICZ

Member of the Faculty of Management, University of Oxford at Said Business School and Wolfson College

MASSIMO VILLARI

Associate Professor in Computer Engineering at University of Messina (Italy)

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LILJANA GAVRILOVSKA

Head of the Institute of Telecommunications at the Faculty of Electrical Engineering and Information Technologies

SOMNATH CHATTERJEE

Global Projects and Partner Relations Lead Share-Pract & Knowledge Management Consortium

PERIKLIS CHATZIMISIOS

Alexander TEI of Thessaloniki, Greece

14:00 - 18:00

EXHIBITORS PITCH PRESENTATIONS

Short presentations of IoT projects in the exhibition area.

15:30 - 16:00

NETWORKING COFFEE BREAK

16:00 - 18:00

IOT SUCCESS STORIES

What does it take to turn IoT research into a product? We will explore options available to researchers after publishing a scientific article and what it entails to sell technology or to create your own startup.

IACOPO CARRERAS

CEO, U-Hopper

FABRIZIO SILLANO

Business Development Manager, E-Level Communication

JOAQUIN FERNANDEZ

Business Development Director at Irdetec Consulting

PIERANGELO GARINO

Project Manager Telecom Italia

ANDREA VITALETTI

Assistant professor, University of Rome La Sapienza

DAY 3 - 29 OCTOBER 2015

09:00 - 09:45

KEYNOTE SPEAKERS**AMIR RAVEH**

Founder of British Investments House "MG EQUITY Partners"

09:45 - 10:30

EAI IN COMMUNITY INNOVATION

Presentation of the EAI community portal. Community cooperation as the way to innovation.

AMIR RAVEH

Founder of British Investments House "MG EQUITY Partners"

10:30 - 11:00

NETWORKING COFFEE BREAK

11:00 - 12:30

SUCCESS STORIES

Innovators share their experience with transfer of research outcomes into a successful product.

DAVID DEFRENNE

CTO & Co-Founder of Speaky, a social network to learn languages online

DAVID BORDONADA

Libelium, Spain

SHMUEL UR

ur-innovation.com

ANTONIO F. SKARMETA

co-founder, Odins

12:30 - 14:00

LUNCH

14:00 - 14:45

KEY STAGES OF INNOVATION**1. IDEA EVALUATION**

Adding to the idea evaluation tools that have filled the public domain, the panellists in this session will examine the key success factors and best practices for IoT-oriented ventures. They will take a close look at Lean Startup Methodology to define an agile entrepreneur, and outline what kind of ecosystem helps in swift idea evaluation and risk mitigation. The deliberations explore compelling need, time to market, testing, pilots, mapping ideas, competitive scenarios and entry barriers are then thrown into the mix. Thereafter, monetization, ROI, operational challenges and logistics constitute areas where panelists are encouraged to dive deeper. Finally, the panel turns to scalability and wide ranging applications to make it big with a few illustrations for innovators of the future.

DAVID DEFRENNE

CTO & Co-Founder of Speaky, a social network to learn languages online

SOMNATH CHATTERJEE

Global Projects and Partner Relations Lead Share-Pract & Knowledge Management Consortium

ANTONIO F. SKARMETA

co-founder, Odins

14:45 - 15:30

KEY STAGES OF INNOVATION**2. IP DISCOVERY AND PROTECTION**

The session will review and examine issues of protecting IP and its commercialization aspects. Discuss how to protect your ideas, technologies and what the role of patents is. Learn what inventors should know about patents. Are you asking yourself what you should do if you have a promising idea? What the typical mistakes associated with patenting are? Come and learn about patent strategy and monetization.

CLAUDIO GERMINARIO

Partner of Società Italiana Brevetti (SIB)

SHMUEL UR

ur-innovation.com

GIULIO CORAGGIO

Partner DLA Piper, Technology lawyer

CLAES PANTZAR

Search-a-patent AB, Marketing manager

15:30 - 16:00

NETWORKING COFFEE BREAK

16:00 - 17:30

KEY STAGES OF INNOVATION**3. FUNDING OPPORTUNITIES**

The session will review types of funding sources, what their differences, advantages and disadvantages are. Entrepreneurs seeking funding can hear about the panel's experiences and about overcoming the most common obstacles. Learn how to present your case – where the entrepreneurs stumble and what they need to get right. Where to start – should one first have an idea, a patent, or a prototype? What is the difference between searching for funding for a research project and for a potential commercial project?

PAOLA BARUCHELLI

Funding area, CREATE-NET

ANTONIO FONDUCA

Venturing Director at BillerudKorsnäs

THOMAS MEYER

Partner and Co-founder LDS

SANDRO ZILLI

Business Coach, Bizpepper.it

17:30 - 18:00

CLOSING REMARKS

CONFERENCE INTRODUCTION AND PROGRAM

**2nd EAI International Conference on
Mobility in IoT**



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**EAI International Conference on Cloud,
Networking for IoT systems**



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**EAI International Conference on
Interoperability in IoT**



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**EAI International Conference on Smart Objects
and Technologies for Social Good**



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**2nd EAI International Conference on Cognitive Internet of
Things Technologies, 2nd EAI International Conference on
Software Defined and Virtualized Future Wireless Networks**



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2nd EAI International Conference on IoT as a Service



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**EAI International Conference on CYber physiCaL systems,
IoT and sensors Networks**



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**6th EAI International Conference
on Sensor Systems and Software**



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**2nd EAI International Conference on
Safety and Security in Internet of Things**



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**2nd EAI International Conference on
IoT Technologies for HealthCare**



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08:30 - 09:00 REGISTRATION**09:00 - 10:30 KEYNOTE SPEECHES**

Professor Milan Dado - Internet of Things as Advanced Technology to Support Mobility and Intelligent Transport

Vicepresident ZAP Jaroslav Holeček

Professor George Teodorescu - i-WALK a different approach to Urban Mobility

10:30 - 11:00 COFFEE BREAK

11:00 - 12:30 • An IoT Approach for the Connected Vehicle, Andrea Parodi, Massimo Maresca, Michele Provera Pierpaolo Baglietto

• Mobile App for Public Transport: A Usability and User Experience Perspective, Anaïs Luisa Habermann, Kai Kasugai, and Martina Ziefle

• A study on the detection of abnormal behaviour and vulnerability analysis in beyond, TAEEUN KIM, Korea Internet & Security Agency, Seoul, South Korea

12:30 - 14:00 LUNCH

14:00 - 15:00 **Professor Dušan Petráš** – Smart Cities - Energy efficient and environmentally friendly housing

Associate Professor Predrag K. Nikolic - Multimodal Interactions: Embedding New Meanings to Known Forms and Objects

15:00 - 15:30 COFFEE BREAK

15:30 - 16:15 • Open platform within the Smart Health framework to support the development of Recreational Bike Path applications. Smart Bike Path in the context of the VAS Strategy in Colombia, Mónica Trujillo Ramírez, Dario Correal Torres

• Heterogeneous Travel Information Exchange, Markus C. Beutel, Sevket Gokay, Wolfgang Kluth, Karl-Heinz Krempels, Christian Samsel, Christoph Terwelp, and Maximilian Wiederhold

16:15 - 17:30 Invited Speeches:

• Smart Infrastructure in Bratislava, Julius Golej, Miroslav Panik, Andrej Adamuscin

• Internet of Things as Advanced Technology to Support, Mobility and Intelligent Transport, Milan Dado, Ales Janota, Juraj Špálek, Peter Holečko, Rastislav Pirník, and Karl E. Ambrosch

• Invited papers- The Causal Link between Land Grabbing and its Implications, Daniela Špirková, Dagmar Cagánová, Manan Bawa

• Invited papers- Could Smart Economy Benefit from Knowledge-Based Economy, Marcel Ševela

08:30 - 09:00 REGISTRATION**09:30 - 10:30 KEYNOTE SPEAKERS**

Francesco Profumo
Gabi Zodik
Mischa Dohler

10:30 - 11:00 COFFEE BREAK**11:00 - 12:30 NATIONAL IOT INITIATIVES IN EUROPE**

Overview national initiatives focusing on funding IoT related projects

Hamid Falaki
Fabio Bellifemine
Antonio Nicita
MAURIZIO DÈCINA

12:30 - 13:30 LUNCH**13:30 - 14:30 PERSPECTIVES ON IOT**

Industry players and their approach to IoT

Gabi Zodik
Stefan Bungart

14:30 - 15:30 IOT & FUTURE CITIES

Experts from cities, utilities, manufacturing, transport and other infrastructure providers will share what they successfully implemented and what plans they have for further optimizations.

Afonso Ferreira
Sarah Campbell
Michael Mulquin
Jonathan Steel

15:30 - 16:00 COFFEE BREAK**16:00 - 17:30 PRIVACY AND SAFETY**

Legal issues accruing from use of IoT, inform about existing and "future" legislation.

Raffaele Giaffreda
Francesca Bria
Giulio Coraggio
Mischa Dohler

17:30 - 18:30 STANDARDISATION IN IOT

Too many standards for IoT?

Andrew Watson
Marco Carugi
Raffaele Giaffreda



26 OCTOBER 2015

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08:30 - 09:00 REGISTRATION**09:00 - 09:15 OPENING: Prof. Massimo Villari****09:15 - 10:30 KEYNOTE: Prof. Frank Leymann****10:30 - 11:00 COFFEE BREAK****11:00 - 13:00 SESSION 1: SESSION CHAIR GABOR KECSKEMETI**

Dimosthenis Kyriazis, George Kousiouris, Alexandros Psychas, Andreas Menychtas, and Theodora Varvarigou. Opportunistic Collaborative Service Networks: The Facilitator for Efficient Data and Services Exchange.

Meisong Wang, Rajiv Ranjan, Prem Prakash Jayaraman, Peter Strazdins, Pete Burnap, Omer Rana, and Dimitrios Georgakopoulos. A Case for Understanding End-to-End Performance of Topic Detection and Tracking based Big Data Applications in the Cloud.

Dana Petcu, Silviu Panica, Bogdan Irimie, and Georgiana Macariu. On Security SLA-based Monitoring as a Service.

Luciano Barreto, Antonio Celesti, Massimo Villari, Maria Fazio, and Antonio Puliafito. Security and IoT Cloud Federation: Design of Authentication Schemes

13:00 - 14:00 LUNCH**14:00 - 15:00 SESSION 2: SESSION CHAIR RAJIV RANJAN**

Luiz Angelo Steffanel and Manuele Kirsch Pinheiro. When the Cloud goes Pervasive: approaches for IoT PaaS on a ubiquitous world.

Ioan Petri, Javier Diaz-Montes, Omer Rana, Yacine Rezgui, Manish Parashar, and Luiz F. Bittencourt. Coordinating Data Analysis & Management in Multi-Layered Clouds.

15:00 - 15:30 COFFEE BREAK**15:30 - 17:00 SESSION 3: SESSION CHAIR ANTONIO CELESTI**

Gabor Kecskemeti and Zsolt Nemeth. Foundations for Simulating IoT Control Mechanisms with a Chemical Analogy.

Marco Zappatore, Antonella Longo, Mario A. Bochichio, Daniele Zappatore, Alessandro A. Morrone, and Gianluca De Mitri. Towards Urban Mobile Sensing as a Service: an Experience from Southern Italy

Alexis I. Aravanis, Panagiotis Karkazis, Artemis Voulkidis, and Theodore Zahariadis. On the Minimization of the Energy Consumption in Federated Data Centers

08:30 - 09:00 REGISTRATION**09:00 - 10:30 KEYNOTE SPEAKERS**

Francesco Profumo
Gabi Zodik
Mischa Dohler

10:30 - 11:00 COFFEE BREAK**11:00 - 12:30 NATIONAL IOT INITIATIVES IN EUROPE**

Overview national initiatives focusing on funding IoT related projects

ANDREA RANALLI
HAMID FALAKI
ANTONIO NICITA
MAURIZIO DÈCINA

12:30 - 13:30 LUNCH**14:00 - 14:10 OPENING: Prof. Massimo Villari****14:10 - 14:50 KEYNOTE: Dr. Antonio Manzalini****15:00 - 15:30 COFFEE BREAK****15:30 - 17:00 SESSION 4: SESSION CHAIR MARIA FAZIO**

Attila Kertesz and Tamas Panzner. Towards Enabling Scientific Work

flows for the Future Internet of Things.

Ashis Gopal Banerjee, Benjamin Beckmann, John Carbone, Lynn DeRose, Annarita Giani, Peter Koudal, Patricia Mackenzie, Joseph Salvo, Dan Yang, and Walter Yund. Cloud Computing-based Marketplace for Collaborative Design and Manufacturing.

Simone Di Cola, Kung-Kiu Lau, Cuong Tran, Chen Qian. Towards Defining Families of Systems in IoT: Logical Architectures with Variation Points.

17:10 - 17:15 WRAP-UP AND CLOSING CN4IOT**17:30 - 18:30 STANDARDISATION IN IOT**

Too many standards for IoT?

Andrew Watson
Marco Carugi
Raffaele Giaffreda



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08:30 - 09:00 REGISTRATION**09:00 - 09:15 WELCOME!****09:15 - 10:30 KEYNOTE ADDRESS****10:30 - 11:00 COFFEE BREAK****11:00 - 12:30 TECHNICAL SESSION I: ARCHITECTURE AND VISION**

CHAIR: TBA

CROSS-PLATFORM SCENARIO MODULE FOR INTERNET OF THINGS TESTING ARCHITECTURE

Osama Abu Oun, University of France-Comte
Christelle Bloch, University of France-Comte
Francois Spies, FEMTO-ST Lab (CNRS)

SEMANTIC METASTANDARDS WILL UNLOCK IOT INTEROPERABILITY

David P. Janes, IOTDB.org, Canada

INTERNET OF THINGS AND CROWDSOURCING - TOWARDS A MULTIPLE INTEGRATING MODEL BASED ON THE IOT LAB EUROPEAN RESEARCH PROJECT

Sébastien Ziegler, Mandat International, Switzerland

13:00 - 14:00 LUNCH**11:00 - 12:30 TECHNICAL SESSION II: TESTING INTEROPERABILITY**

CHAIR: TBA

HOW TO DEAL WITH INTEROPERABILITY TESTING IN THE CHALLENGING AND EVER-CHANGING CONTEXT OF IOT

- Cesar Viho, IRISA-University of Rennes 1, France
- Xiaohong Huang, BUPT, Beijing

LESSONS LEARNED FROM THE 6TISCH PLUGTESTS

- Maria Rita Palattella, SnT, University of Luxembourg,
- Xavier Vilajosana, Universitat Oberta de Catalunya
- Tengfei Chang, University of Science and Technology, Beijing
- Miguel Angel Reina Ortega, ETSI, Thomas Wattyne, Inria Paris-Rocquencourt

15:00 - 15:30 COFFEE BREAK**15:30 - 17:00 TECHNICAL SESSION III: TECHNOLOGY AND TOOLS**

CHAIR: DR. GEORGIOS Z. PAPADOPOULOS

BLE AND IEEE 802.15.4 IN THE IOT: EVALUATION AND INTEROPERABILITY CONSIDERATIONS

- PrithviRaj Narendra, SICS Swedish ICT, Sweden
- Simon Duquennoy, SICS Swedish ICT, Sweden
- Thiemo Voigt, SICS Swedish ICT/Uppsala University, Sweden

VISUAL DEVELOPMENT ENVIRONMENT FOR SEMANTICALLY INTEROPERABLE SMART CITIES APPLICATIONS

- Aikaterini Roukounaki, Athens Information Technology, Greece
- John Soldatos, Athens Information Technology, Greece
- Riccardo Petrolo, Inria Lille-Nord Europe, France
- Valeria Loscri, Inria Lille-Nord Europe, France
- Nathalie Mitton, Inria Lille-Nord Europe, France
- Martin Serrano, National University of Ireland, Ireland

REMOTE MANAGEMENT OF A LARGE SET OF HETEROGENEOUS DEVICES USING EXISTING IOT INTEROPERABILITY PLATFORMS

- Heleen Vandaele, Ghent University, iMinds, Belgium
- Jelle Nelis, Ghent University, iMinds, Belgium
- Tim Verbelen, Ghent University, iMinds, Belgium
- Chris Develder, Ghent University, iMinds, Belgium



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Francesco Profumo
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Legal issues accruing from use of IoT, inform about existing and "future" legislation.

Raffaele Giaffreda
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17:30 - 18:30 STANDARDISATION IN IOT

Too many standards for IoT?

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Marco Carugi
Raffaele Giaffreda

08:45 - 09:15 REGISTRATION**09:15 - 09:30 WELCOME & CONFERENCE OPENING****09:30 - 10:30 KEYNOTE SPEAKER: EIKO YONEKI****10:30 - 11:00 COFFEE BREAK****11:00 - 13:00 SESSION 1 (CHAIR: PIETRO MANZONI)**

TECHNOLOGY, CITIZENS AND SOCIAL CHANGE IN THE FRAMEWORK OF EUROPEAN RESEARCH AND INNOVATION PROGRAMMES: TOWARDS A PARADIGM SHIFT

Arniani, Marta (Sigma Orionis)

UNDERSTANDING THE CITY TO MAKE IT SMART

De Michele, Roberta (University of Modena and Reggio Emilia)

Furini, Marco (University of Modena and Reggio Emilia)

MOBILITAPP: ANALYSING MOBILITY DATA OF CITIZENS IN THE METROPOLITAN AREA OF BARCELONA

Puglisi, Silvia (Universitat Politècnica de Catalunya) Marrugat Torregrosa, Gerard (Universitat Politècnica de Catalunya)

Torres Moreira, Angel (Universitat Politècnica de Catalunya)

Aguilar Iguartua, Monica (Universitat Politècnica de Catalunya)

Forne, Jordi (Universitat Politècnica de Catalunya)

CALIBRATING LOW-END SENSORS FOR OZONE MONITORING

Alvear, Oscar (Universitat Politècnica de Valencia); Calafate, Carlos (Universitat Politècnica de Valencia)

Cano, Juan-Carlos (Universitat Politècnica de Valencia)

Manzoni, Pietro (Universitat Politècnica de Valencia)

EVALUATION OF TSCH/IEEE 802.15.4E IN A DOMESTIC NETWORK ENVIRONMENT

Solis, Priscila; Pacheco Luis (University of Brasilia); Vermeulen, Tom (KU Leuven, Dept. Elektrotechniek ESAT-TELEMIC)

Pollin, Sofie (KU Leuven, Dept. Elektrotechniek ESAT-TELEMIC)

13:00 - 14:00 LUNCH**14:00 - 15:00 KEYNOTE GIANLUCA VERIN**

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15:00 - 15:30 COFFEE BREAK**15:30 - 17:30 SESSION 2 (CHAIR: OMBRETTA GAGGI)****A STOCHASTIC OPTIMIZATION MODEL FOR THE PLACEMENT OF ROAD SITE UNITS**

Urquiza-Aguiar, Luis (Universitat Politècnica de Catalunya)

Tripp-Barba, Carolina (Universidad Autónoma de Sinaloa)

Aguilar Igartua, Monica (Universitat Politècnica de Catalunya)

CAN A GAME IMPROVE PEOPLE'S LIVES? THE CASE OF SERIOUS GAMES

Bujari, Amir (Department of Mathematics, University of Padua, Italy);

Ciman, Matteo (Department of Mathematics, University of Padua, Italy);

Gaggi, Ombretta (Department of Mathematics, University of Padua, Italy);

Palazzi, Claudio Enrico (Department of Mathematics, University of Padua, Italy)

ABOUT GAME ENGINES AND THEIR FUTURE

Maggiorini, Dario (University of Milano);

Ripamonti, Laura Anna (University of Milano);

Cappellini, Giacomo (Italian National Research Council, Milano)

SMART CART: WHEN FOOD ENTERS THE IOT SCENARIO

Furini, Marco (University of Modena and Reggio Emilia);

Pitzalis, Claudia (University of Modena and Reggio Emilia)

TOWARDS AUTONOMIC MIDDLEWARE-LEVEL MANAGEMENT OF QOS FOR IOT APPLICATIONS

Chassot, Christophe; Banouar, Yassine (LAAS-CNRS);

Diop, CodC (LAAS-CNRS);

Reddad, Saad (LAAS-CNRS)

SAFE BICYCLE PARKING PLATFORM BASED ON RFID TECHNOLOGY

Exposito Jimenez, Víctor Juan (Joanneum Research);

Salmhofer, Florian (Joanneum Research);

Frosch, Reinhold (Frequent Froschelectronics);

Zeiner, Herwig (Joanneum Research)

17:30 END OF WORKS**08:30 - 09:00 REGISTRATION****09:30 - 10:30 KEYNOTE SPEAKERS**

Francesco Profumo

Gabi Zodik

Mischa Dohler

10:30 - 11:00 COFFEE BREAK**11:00 - 12:30 NATIONAL IOT INITIATIVES IN EUROPE**

Overview national initiatives focusing on funding IoT related projects

ANDREA RANALLI

HAMID FALAKI

ANTONIO NICITA

MAURIZIO DÈCINA

12:30 - 14:00 LUNCH**13:30 - 14:30 PERSPECTIVES ON IOT**

Industry players and their approach to IoT

Gabi Zodik

Stefan Bungart

14:30 - 15:30 IOT & FUTURE CITIES

Experts from cities, utilities, manufacturing, transport and other infrastructure providers will share what they successfully implemented and what plans they have for further optimizations.

Afonso Ferreira

Sarah Campbell

Michael Mulquin

Jonathan Steel

15:30 - 16:00 COFFEE BREAK**16:00 - 17:30 PRIVACY AND SAFETY**

Legal issues accruing from use of IoT, inform about existing and "future" legislation.

Raffaele Giaffreda

Francesca Bria

Giulio Coraggio

Mischa Dohler

17:30 - 18:30 STANDARDISATION IN IOT

Too many standards for IoT?

Andrew Watson

Marco Carugi

Raffaele Giaffreda



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SOFTWARE DEFINED WIRELESS NETWORKS AND COGNITIVE TECHNOLOGIES FOR IOT

A NEW CONFERENCE CREATED BY MERGING:

INTERNATIONAL CONFERENCE ON COGNITIVE INTERNET OF THINGS TECHNOLOGIES

INTERNATIONAL CONFERENCE ON SOFTWARE DEFINED AND VIRTUALIZED FUTURE WIRELESS NETWORKS

08:40 - 08:45 Welcome & Conference Opening Remarks

08:45 - 09:45 KEYNOTE SPEAKER: Prof. Klaus Moessner

09:45 - 10:30 SESSION 1: SERVICES AND APPLICATIONS IN IOT I (15 MIN. EACH)

“DYNAMIC MONITORING DASHBOARDS THROUGH COMPOSITION OF WEB AND VISUALIZATION SERVICES”

Van Hoecke, Sofie; Huys, Cynric; Janssens, Olivier; Verborgh, Ruben; Van de Walle, Rik

“REAL-TIME TRACKING MANAGEMENT SYSTEM “

Almeida, Jose; Arsenio, Artur

“DISTRIBUTED NEURAL NETWORKS FOR INTERNET OF THINGS: THE BIG-LITTLE APPROACH”

De Coninck, Elias; Verbelen, Tim; Vankeirsbilck, Bert; Bohez, Steven; Simoens, Pieter; Demeester, Piet; Dhoedt, Bart

10:30 - 11:00 COFFEE BREAK

11:00 - 12:00 KEYNOTE SPEAKER: PROF. PAYAM BARNAGHI

12:00 - 12:30 SESSION 2: SERVICES AND APPLICATIONS IN IOT II (15 MIN. EACH)

“LEARNING ABOUT ANIMALS AND THEIR SOCIAL BEHAVIORS FOR SMART LIVESTOCK MONITORING”

Ambrosio, João; Arsenio, Artur; Remédios, Orlando

“PERSONAL AND SENSITIVE DATA IN THE E-HEALTH-IOT UNIVERSE”

Guadagni, Fiorella; Scarpato, Noemi; Ferroni, Patrizia; D’ottavi, Grazia; Boavida, Fernando; Roselli, Mario; Garrisi, Graziano; Lisi, Andrea

12:30 - 14:00 LUNCH

14:00 - 15:00 NATIONAL IOT INITIATIVES IN EUROPE

Opening Talk: Dr. Antonio Manzalini
A Software Defined Network solution for Spontaneous Wireless Access Extension

15:00 - 15:30 COFFEE BREAK

15:30 - 17:30 DEMO: Mininet-WiFi
Towards Adoption of Software Defined Wireless Backhaul Networks
USD: a User-centric Software Defined Platform for 5G Mobile Devices
Extending SDN Framework for Communication Networks

08:30 - 09:00 REGISTRATION

09:30 - 10:30 KEYNOTE SPEAKERS

Francesco Profumo
Gabi Zodik
Mischa Dohler

10:30 - 11:00 COFFEE BREAK

11:00 - 12:30 NATIONAL IOT INITIATIVES IN EUROPE

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ANDREA RANALLI
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12:30 - 13:30 LUNCH

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Afonso Ferreira
Sarah Campbell
Michael Mulquin
Jonathan Steel

15:30 - 16:00 COFFEE BREAK

16:00 - 17:30 PRIVACY AND SAFETY

Legal issues accruing from use of IoT, inform about existing and “future” legislation.

Raffaele Giaffreda
Francesca Bria
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Mischa Dohler

17:30 - 18:30 STANDARDISATION IN IOT

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08:30 - 09:00 REGISTRATION**09:00 - 10:00 1ST KEYNOTE SPEAKER - GABI ZODIK**

Future Directions in Mobile, IoT and Wearable enterprise computing

10:00 - 10:30 SESSION 1: IOT ARCHITECTURES

MANAGING CONNECTED SMART OBJECTS, CORK INSTITUTE OF TECHNOLOGY

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 Configurable Role Based Concrete Architecture Layers - Constituting Business Process Aware Internet-of-Things Services' Reference Architecture, Wipro Technologies, Vikas S Shah

Wi-Suite: Tools and Services for Managing IoT Infrastructures, Cork Institute of Technology, Alan McGibney and Susan Rea
Nimbus Centre, Rossa Avenue, Bishopstown, Cork, Ireland

Lightweight device task actuation framework, Tata Consultancy Services, Dhiman Chattopadhyay, Abinash Samantaray, and Hari Raghav

COMPOSE - an IoT platform, IBM Research

13:00 - 14:00 LUNCH

14:00 - 14:30 Networked Smart Objects: Moving Data Processing Closer to the Source, University of Insubria, Alessandra Rizzardi, Daniele Miorandi, Sabrina Sicari, Cinzia Cappiello, and Alberto Coen-Portisini

14:30 - 15:00 SESSION 2: SEMANTICS & USE CASES

AUTOMATED WORKFLOW FORMATION FOR IOT ANALYTICS: A CASE STUDY, TATA CONSULTANCY SERVICES, T. CHATTOPADHYAY, AVIK GHOSE, ARIJIT MUKHERJEE, SANTA MAITI, ARPAN PAL

15:00 - 15:30 COFFEE BREAK

15:30 - 17:00 On integrating heterogeneous location services, Kobe University, Hiroki Takatsuka, Sachio Saiki, Shinsuke Matsumoto, and Masahide Nakamura

A Semantic Algorithm Repository and Workflow Designer Tool: Signal Processing Use Case, Tata Consultancy Services, Sounak Dey, Dibyanshu Jaiswal, Himadri Sekhar Paul, and Arijit Mukherjee

Biotelemetry System for Remote Monitoring of Cardiac Signals and Temperature using Social Networks, Universidad Politécnica Salesiana, Melissa Montalvo, Andrea García, Julio Montesdeoca and René Ávila

08:30 - 09:00 REGISTRATION**09:30 - 10:30 KEYNOTE SPEAKERS**

Francesco Profumo
Gabi Zodik
Mischa Dohler

10:30 - 11:00 COFFEE BREAK

11:00 - 12:00 2ND KEYNOTE SPEAKER ALFEO PARESCHI

Chief Strategy Officer, Axiros: IoT platforms: Security, Identity Management, Ontologies and Interoperability

12:00 - 12:30 INVITED TALK - AFONSO FERREIRA

Trust & Security Unit, European Commission: IoT Research and Innovation in the European Commission

12:30 - 13:00 SESSION 3: IOT SECURITY / PRIVACY & TESTING

Trust & Security Unit, European Commission: IoT Research and Innovation in the European Commission

13:00 - 14:00 LUNCH

12:30 - 13:00 Data centric Security for IoT, University of Passau, Daniel Schreckling, Juan David Parra, Charalampos Doukas, and Joachim Posegga

Privacy Aware OnDemand Resource Provisioning for IoT Data Processing, STFC, Tom Kirkham, Arnab Sinha, Nikos Parlavantzas, Bartosz Kryza, Paul Fremantle, Kyriakos Kritikos, Benjamin Aziz

15:30 - 16:00 COFFEE BREAK**16:00 - 17:30 PRIVACY AND SAFETY**

Legal issues accruing from use of IoT, inform about existing and "future" legislation.

Raffaele Giaffreda
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08:30 - 09:00 REGISTRATION**09:30 - 10:30 KEYNOTE ADDRESS**

Periklis Chatzimisios,
Alexander TEI of Thessaloniki, Greece

09:45 - 10:30 AN SDN AND CPS BASED OPPORTUNISTIC UPLOAD SPLITTING FOR MOBILE USERS

Maurizio Casoni, Carlo Augusto Grazia, and Martin Klapez

A CLOUD-BASED PLATFORM OF THE SOCIAL INTERNET OF THINGS

Roberto Girau, Salvatore Martis, and Luigi Atzori

STAND-ALONE SMART WIRELESS SENSOR NODES PROVIDING DYNAMIC ROUTING BY MEANS OF ADAPTIVE BEAMFORMING

Stefano Giordano, Roberto Caso, Rosario Garroppo, Giuliano Manara, Andrea Michel, Paolo Nepa, Luca Tavanti, Marco Magnarosa, Guido Nenna

10:30 - 11:00 COFFEE BREAK**11:00 - 13:30 A CENTRALITY-BASED ACK FORWARDING MECHANISM FOR EFFICIENT ROUTING IN INFRASTRUCTURELESS OPPORTUNISTIC NETWORKS**

Sanjay K. Dhurandher, Isaac Woungang, Anshu Rajendra, Piyush Ghai, and Periklis Chatzimisios

ZONE-BASED LIVING ACTIVITY RECOGNITION SCHEME USING MARKOV LOGIC NETWORKS

Asaad Ahmed, Hirohiko Suwa, and Keiichi Yasumoto

13:00 - 14:00 LUNCH**14:00 - 15:00 SPECIAL SESSION : ENABLING INTERNET OF THINGS (IOT) OVER 5G MOBILE NETWORKS**

SPATIAL REUSE BASED RESOURCE ALLOCATION IN DEVICE-TO-DEVICE COMMUNICATIONS

Tiansheng Sun, Li Wang, Zilong Wu and Tommy Svensson

WIRELESS M-BUS: AN ATTRACTIVE M2M TECHNOLOGY FOR 5G-GRADE HOME AUTOMATION

Pavel Masek, Krystof Zeman, Zenon Kuder, Jiri Hosek, Sergey Andreev, Radek Fujdiak, and Franz Kropfl

CARPPOOLING IN URBAN AREAS: A REAL-TIME SERVICE CASE-STUDY ?

Matteo Mallus, Giuseppe Colistra, Luigi Atzori, and Maurizio Murrone

SPECTRUM SHARING APPROACHES FOR MACHINE-TYPE COMMUNICATIONS OVER LTE HETEROGENEOUS NETWORKS

Orsino, M. Condoluci, and G. Araniti

SOFTWAREZATION AND VIRTUALIZATION IN 5G NETWORKS FOR SMART CITIES

Massimo Condoluci, Fragkiskos Sardis, and Toktam Mahmoodi

15:00 - 15:30 COFFEE BREAK**15:30 - 17:00 FEASIBILITY OF SIGNALLING STORMS IN 3G/UMTS OPERATIONAL NETWORKS**

Frederic Francois, Omer H. Abdelrahman and Erol Gelenbe

COUNTERING MOBILE SIGNALLING STORMS WITH COUNTERS

Erol Gelenbe and Omer H. Abdelrahman

A DATA PLANE APPROACH FOR DETECTING CONTROL PLANE ANOMALIES IN MOBILE NETWORKS

Omer H. Abdelrahman and Erol Gelenbe

DEMONSTRATING THE VERSATILITY OF A LOW COST MEASUREMENT TESTBED FOR WIRELESS SENSOR NETWORKS WITH A CASE STUDY ON RADIO DUTY CYCLING PROTOCOLS

Maite Bezunartea, Marie-Paule Uwase, Jacques Tiberghien, Jean-Michel Dricot, Kris Steenhaut

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08:30 - 09:00 REGISTRATION**09:30 - 10:30 KEYNOTE SPEAKERS**

Francesco Profumo
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Afonso Ferreira
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Jonathan Steel

15:30 - 16:00 COFFEE BREAK**16:00 - 17:30 PRIVACY AND SAFETY**

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Raffaele Giaffreda
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17:30 - 18:30 STANDARDISATION IN IOT

Too many standards for IoT?

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08:45 - 09:15 REGISTRATION**09:15 - 09:30 WELCOME AND CONFERENCE OPENING REMARKS****09:30 - 10:30 KEYNOTE 1:**

Andrew Markham, University of Oxford (UK): Title: Smart Sensors for Smarter Structures

10:30 - 11:00 COFFEE BREAK**15:30 - 17:00 TECHNICAL SESSION 1: SENSORS**

STRAIN CALIBRATION OF SUBSTRATE-FREE FBG SENSORS AT CRYOGENIC TEMPERATURE (FULL PAPER)

1,2 Venkataraman Narayanan Venkatesan, 1 K-P. Weiss, 2 R.P. Bharti, 1 H. Neumann, 1 R. Ramalingam
1 ITEP, KIT, Germany
2 IIT, India

FABRICATION AND APPLICATION OF LOW COST FLEXIBLE FILM-BASED SENSORS TO ENVIRONMENTAL AND BIOMEDICAL MONITORING SCENARIOS (FULL PAPER)

1,2,3 Vladimir Laukhin, 1 Victor Lebedev, 1,2 Elena Laukhina, 4 Andrey Somov, 5 Alexander Baranov, 1,2 Concepcio Rovira, 1,2 Jaume Veciana
1 ICMAB-CSIC, Spain
2 CIBER-BBN, Spain
3 ICREA, Spain
4 CREATE-NET, Italy
5 'MATI'-RGTU, Russia

HAZARDOUS GASES SENSING: INFLUENCE OF IONIZING RADIATION ON HYDROGEN SENSORS (SHORT PAPER)

Boris Podlepetsky, Nikolay Samotaev
MEPhI, Russia

APPROACH TO ENGINEERING THE TEMPERATURE SENSING E-TEXTILE: A LIGHTWEIGHT THERMISTOR AS AN ACTIVE SENSING ELEMENT (FULL PAPER)

1 Victor Lebedev, 1,2 Elena Laukhina, 1,2,3 Vladimir Laukhin, 4 Andrey Somov, 5 Alexander Baranov, 1,2 Concepcio Rovira, 1,2 Jaume Veciana
1 ICMAB-CSIC, Spain
2 CIBER-BBN, Spain
3 ICREA, Spain
4 CREATE-NET, Italy
5 'MATI'-RGTU, Russia

12:30 - 14:00 LUNCH

15:30 - 17:00 TECHNICAL SESSION 2: EXPERIMENTATION AND PROTOTYPING

EXIMUS: AN EXPERIMENTAL INERTIAL MEASUREMENT UNIT FOR SHOCK AND IMPACT DETECTION IN SPORT APPLICATIONS (INVITED PAPER)

Ivan Minakov, Roberto Passerone
University of Trento, Italy

TOWARDS GENERIC INTELLIGENT WSN PLATFORM FOR HAZARDOUS GASES DETECTION (FULL PAPER)

1 Nikolay Samotaev, 1 Anastasia Ivanova, 1 Konstantin Oblov, 2 Pavel Laguzov, 2 Andrey Sokolov
1 MEPhI, Russia
2 NPP 'Delta', Russia

MANAGEMENT OF IONIZATION SOURCE BASED ON A PULSED CORONA DISCHARGE (FULL PAPER)

V. Belyakov, A. Golovin, V. Pershenkov, Y. Shaltaeva, V. Vasilyev, N. Samotaev, E. Malkin, E. Gromov, V. Shurenkov, I. Ivanov, M. Matusko, D. Yakovlev
MEPhI, Russia

15:00 - 15:30 COFFEE BREAK

15:30 - 17:00 TECHNICAL SESSION 3: INTERNET OF THINGS AND CYBER PHYSICAL SYSTEMS

DYNAMIC RECONFIGURATION OF NETWORK PROTOCOLS FOR CONSTRAINED INTERNET OF THINGS DEVICES (INVITED PAPER)

1 Peter Ruckebusch, Jo Van Damme, 1 Eli De Poorter, 1 Ingrid Moerman
1 Ghent University, Belgium

SURVEYING INDEXING METHODS FOR THE INTERNET OF THINGS (FULL PAPER)

Victor Kardeby, Ulf Jennehag, Mikael Gidlund
Mid Sweden University, Sweden

TOWARDS PRECISION CONTROL IN CONSTRAINED WIRELESS CYBER-PHYSICAL SYSTEMS (FULL PAPER)

David Boyle, Roman Kolcun, Eric Yeatman
Imperial College London, UK

17:00 END OF THE FIRST DAY

09:00 - 09:15 REGISTRATION

09:15 - 09:30 INTRODUCTION

09:30 - 10:30 KEYNOTE SPEAKERS

Francesco Profumo
Gabi Zodik
Mischa Dohler

10:30 - 11:00 COFFEE BREAK

11:00 - 12:00 KEYNOTE 2:

**Fahim Kawsar, Alcatel Lucent Bell Labs (Belgium):
Network Driven Behaviour Modelling for Designing
User Centred IoT Services.**

12:00 - 13:00 TECHNICAL SESSION 4: SOFTWARE

DESALB: A FRAMEWORK FOR IMPLEMENTING SELF-STABILIZING EMBEDDED NETWORK APPLICATIONS (SHORT PAPER)

1 Yangyang He, 1 Yuheng Du, 2 Shiree Hughes, 2 Jiannan Zhai, 2 Jason O. Hallstrom, 3 Nigamanth Sridhar
1 Clemson University, USA
2 Florida Atlantic University, USA
3 Cleveland State University, USA

AUTOMATICALLY QUANTITATIVE ANALYSIS AND CODE GENERATOR FOR SENSOR SYSTEMS: THE EXAMPLE OF GREAT LAKES WATER QUALITY MONITORING (SHORT PAPER)

Bojan Nokovic, Emil Sekerinski
McMaster University, Canada

12:30 - 14:00 LUNCH

14:00 - 15:00 TECHNICAL SESSION 5: SELF-X AND SMART METHODS

ULTRA-LOW POWER CONTEXT RECOGNITION FUSING SENSOR DATA ACHIEVING A SELF-SUSTAINABLE SMART WATCH (INVITED PAPER)

1,2 Michele Magno, 1 Lukas Cavigelli, 1 Renzo Andri, 1,2 Luca Benini
1 ETHZ, Switzerland
2 University of Bologna, Italy

METHODS FOR THE SELF CALIBRATION OF ION MOBILITY SPECTROMETER (FULL PAPER)

V. Vasilyev, N. Samotaev, V. Belyakov, V. Pershenkov, A. Golovin, E. Malkin, E. Gromov, I. Ivanov, Y. Shaltaeva, M. Matusko
MEPhI, Russia

ADAPTIVE METHODS FOR MANAGING HETEROGENEITY IN SMART SPACES (SHORT PAPER)

Mikko Asikainen, Lauri Väätäinen, Alekski Suomalainen, Miika Toivanen, Keijo Haataja, Pekka Toivanen
University of Eastern Finland, Finland

15:00 - 15:30 COFFEE BREAK**15:30 - 16:30 TECHNICAL SESSION 6: EVALUATION AND ANALYSIS****AN EVALUATION OF LINK ESTIMATION ALGORITHMS FOR RPL IN DYNAMIC WIRELESS SENSOR NETWORKS (INVITED PAPER)**

1 Peter Ruckebusch, Jens Devloo, David Carels, 1 Eli De Poorter, 1 Ingrid Moerman
1 Ghent University iMinds, INTEC, Belgium

FAST PHASE ANALYSIS OF SAW DELAY LINES (FULL PAPER)

Christian Gruber, Alfred Binder, Martin Lenzhofer
Carinthian Tech Research AG, Austria

A MOBILE CAMERA-BASED EVALUATION METHOD OF INERTIAL MEASUREMENT UNITS ON SMARTPHONES (FULL PAPER)

1 Lars Middendorf, 2 Rainer Dorsch, 2 Rudolf Bichler,
2 Christina Strohmman, 1 Christian Haubelt
1 University of Rostock, Germany
2 Bosch Sensortec GmbH, Germany

16:30 - 17:30 SOFTWARE ARCHITECTURE FOR REMOTE MONITORING SYSTEMS OF SURFACE CONTAMINATION BY ALPHA RADIOACTIVE ISOTOPES (SHORT PAPER)

Boris Gurkovskiy, Evgeny Onishchenko, Vladimir Miroshnichenko, Andrey Simakov, Nikolay Samotaev
MEPhI, Russia

DRIVERGEN: AUTOMATING THE GENERATION OF SERIAL DEVICE DRIVERS (SHORT PAPER)

1 Jiannan Zhai, 2 Yuheng Du, 1 Shiree Hughes, 1 Jason O. Hallstrom
1 Florida Atlantic University, USA
2 Clemson University, USA
5 'MATI'-RGTU, Russia

08:45 - 09:00 WELCOME MESSAGE**09:00 - 10:30 Session I****Innovative TLS/DTLS Security Modules for IoT Applications: Concepts and Experiments**

Pascal Urien, Telecom ParisTech/Paris Saclay University, France

A Privacy Scheme for Monitoring Devices in the Internet of Things

Zygmunt J. Haas (Cornell University, USA); Ashkan Yousefpour (University of Texas at Dallas, USA)

Controlled Android Application Execution for the IoT Infrastructure

Michael N. Johnstone (Edith Cowan University, Australia); Zubair Baig (Edith Cowan University, Australia); Peter Hannay (Edith Cowan University, Australia); Clinton Carpene (Edith Cowan University, Australia); Malik Feroze (Edith Cowan University, Australia)

Combined Danger Signal and Anomaly-Based Threat Detection in Cyber-Physical Systems

Viktoriya Degeler (Airbus Group Innovations, United Kingdom); Richard French (Airbus Group Innovations, United Kingdom); Kevin Jones (Airbus Group Innovations, United Kingdom)

10:30 - 11:00 COFFEE BREAK**11:00 - 12:00 KEYNOTE I:****Contract-Based Design Tailored to Safety Issues for Cyber-physical Systems**

Daniela Cancila, Atomic Energy Center CEA, France

12:00 - 14:00 LUNCH**14:00 - 15:00 Session II****Performance Evaluation of Searchable Symmetric Encryption in Wireless Sensor Networks**

Cristina Munoz (University of Geneva, Switzerland); Lucas Rocci (University of Geneva, Switzerland); Eduardo Solana (University of Geneva, Switzerland); Pierre Leone (University of Geneva, Switzerland)

Secure Data Exchange Based on Social Networks Public Key Distribution

Krzysztof Podlaski (University of Lodz, Poland); Artur Hlobaz (University of Lodz, Poland); Piotr Milczarski (University of Lodz, Poland)

15:00 - 16:00 Keynote II: Safety in IoT and Cyber Physical Systems

Hakima Chaouchi, Institut Mines Telecom, EIT Digital, France

08:30 - 09:00 REGISTRATION

09:30 - 10:30 KEYNOTE SPEAKERS

Francesco Profumo
Gabi Zodik
Mischa Dohler

10:30 - 11:00 COFFEE BREAK

11:00 - 12:30 NATIONAL IOT INITIATIVES IN EUROPE

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15:30 - 16:00 COFFEE BREAK

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17:30 - 18:30 STANDARDISATION IN IOT

Too many standards for IoT?

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Marco Carugi
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09:00 - 09:30 REGISTRATION

09:30 - 10:30 KEY NOTE CONFERENCE

10:30 - 11:00 COFFEE BREAK

11:00 - 11:30 Track Session

(20 minutes each paper and 10 minutes for questions)

11:30 - 12:00 An Overview on the Internet of Things for Health Monitoring Systems

Mobyen Uddin Ahmed, Mats Bjorkman, Aida Causevic, Hossein Fotouhi, and Maria Linden

12:00 - 12:30 An Architecture for Using Commodity Devices and Smart Phones in Health Systems

Geir Horn, Frank Eliassen, Amir Taherkordi, Salvatore Venticinque, Beniamino Di Martino, Monika Bücher, and Lisa Wood

12:30 - 13:00 An Adaptive QoE-based Network Interface Selection for Multi-homed eHealth Devices

Sami Souihi, Mohamed Souidi, and Abdelhamid Mellouk

13:00 - 14:00 LUNCH

14:00 - 14:10 WORKSHOP INTRODUCTION AND WELCOME

14:10 - 14:30 An Internet-Based Tool for Pediatric Cardiac Disease Diagnosis using Intelligent Phonocardiography.

Arash Gharehbaghi and Maria Lindé

14:30 - 14:50 Non-Contact Physiological Parameters Extraction Using Camera.

Hamidur Rahman, Mobyen Uddin Ahmed, and Shahina Begum

14:50 - 15:10 Security analysis of an IoT architecture for Healthcare.

M.Teresa Villalba, Manuel de Buenaga, Diego Gachet, Fernando Aparicio

15:10 - 15:30 COFFEE BREAK

15:30 - 15:50 A Cooperative Decision Support System for Children's Neurodevelopment Monitoring

María-Luisa Martín-Ruiza, Miguel-Angel Valeroa,b, Ana Gómeza Carmen Torcal

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15:50 - 16:10 Intelligent Automated EEG Artifacts Handling Using Wavelet Transform, Independent Component Analysis and Hierarchical clustering.

Shaibal Barua, Shahina Begum and Mobyen Uddin Ahmed

16:10 - 16:30 Can the Regression Trees Be Used to Model Relation Between ECG Leads?

Ivan Tomasic¹, Roman Trobec², and Maria Lindén¹

16:30 - 16:50 Elderly Monitoring System with Sleep and Fall Detector

Abdulakeem Odunmbaku, Amir-Mohammad Rahmani, Pasi Liljeberg, Hannu Tenhunen

09:00 - 09:30 REGISTRATION

09:30 - 10:30 KEYNOTE SPEAKERS

Francesco Profumo
Gabi Zodik
Mischa Dohler

10:30 - 11:00 COFFEE BREAK

11:00 - 11:25 Health Sensors Information Processing and Analytics using Big Data approaches

Gachet Pérez D., Morales Botello M.L., Puer-tas E., de Buenaga M.

11:25 - 11:50 Leveraging IoT device data for Emotional Health

Hariprasad Anumala, Shiva Murthy Busetty, Vishal Bharti

11:50 - 12:15 SMARTA: Smart Ambiente & Wearable home monitoring for elderly

Paolo Perego, Marco Tarabini, Marco Boccione, and Giuseppe Andreoni

12:15 - 12:40 A LabVIEW based Ubiquitous Telehealth System for the Elderly

M. W. Raad, Tarek Sheltami

12:40 - 13:05 Context-Aware Early Warning System for In Home Healthcare Using Internet of Things

Arman Anzanpour, Amir-Mohammad Rahmani, Pasi Liljeberg, and Hannu Tenhunen Break

13:00 - 14:00 LUNCH

14:00 - 14:30 On Evaluating Blood Pressure through Photoplethysmography

Giovanna Sannino, Ivanoe De Falco, and Giuseppe De Pietro

14:30 - 15:00 An inhaler dose recording service designed for patients who need chronic respiratory disease control.

Shu-Hui Hung, Hsin-Hung Lin, Chin-Shian Wong, Ian Kuo, James Pang

15:00 - 15:30 A Novel Approach to Unify Robotics, Sensors, and Cloud Computing through IoT for a Smarter Healthcare Solution for Routine Checks and Fighting Epidemics.

Arijit Sinharay, Arpan Pal, Snehasis Banerjee, Rohan Banerjee, Soma Bandyopadhyay, Parijat Deshpande, and Ranjan Dasgupta

15:30 - 15:45 Final Remarks.

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