Joint 13th CTTE and 10th CMI Conference on Internet of Things – Business Models, Users, and Networks
Auditorium 1.008 at Aalborg University Copenhagen, A.C. Meyers Vænge 15

Thursday 23rd November 2017 (Day 1)

08:30 - 09:00	Registration
09:00 - 09:10	*Welcome and Introduction* **Knud Erik Skouby,** Professor and Director, Center for Communication, Media and Information technologies, Aalborg University

09:10 - 11:00 Session 1
Technologies and Business Models
Session Chair: Knud Erik Skouby

09:10 - 09.30	*New IoT Standards and Applications at Work - managing large open-air events* Steffen Ring, CEO, Ring Advocacy LLC
09:30 - 09:50	*5G standardisation and IoT use cases* Preben Mogensen, Professor, Aalborg University
09:50 - 10:10	*Why do we need 5G?* René Skytte Christoffersen, Director G&IR Market Area Europe & Latin America, Ericsson
10:10 - 10:30	*Business Models and IoT* Ole Kjeldsen, CTO, Microsoft
10:30 - 11:00	Discussion Panel
11:00 - 11:20	Break

Academic Parallel Sessions
11:20 – 13:00

Session 2 A **Room ACM15 (A) 2.1.021** Business Models in the Digital Economy **(20 + 5 mins / Presentation)** Session Chair: Anders Henten	Session 2 B **Room ACM15 (A) 2.1.025** Network Neutrality and Economic Impact of ICT **(20 + 5 mins / Presentation)** Session Chair: Morten Falch	Session 2 C **Room: Auditorium** Techno-Economics of IoT **(20 + 5 mins / Presentation)** Session Chair: Sokol Kosta
• Realizing digital transformation through a digital business model design process, ***Suthamathy Sathananthan*** • Mobile ticketing services in the Northern Europe Critical business model issues, ***Jan Markendahl*** • IT-Enabled Value Co-creation Process for Product Design, ***Reza Mohammadkazemi*** • Dynamic Value Networks, ***Jonathan Spruytte***	• Deviating from Net Neutrality: Assessing the impact on the implementation of Economic Replicability Tests in Europe, ***George Charalampopoulos*** • Network Neutrality Regulation in Brazil, ***Emerson Iaskio*** • The impact of ICT on economic growth of Greece and EU-28 under economic crisis, ***Eleni Laitsou*** • Role of community network operators in the evolution of wireless Internet in India, ***Bhavya Dummi Omkarappa***	• Designing and evaluating a smart cow monitoring system from a techno-economic perspective, ***Jonathan Spruytte*** • TCO savings for Data Centers using NFV and hardware acceleration, ***Dimitris Xydias*** • 5G Micro-operators for the Future Campus: A Techno-economic Study, ***Sunny Vijay*** • A self-supporting wireless IoT node that uses kinetic energy harvesting, ***Per Lynggaard***

Lunch across the bridge in building B 13:00 - 14:00		
Academic Parallel Sessions 14:00 – 15:40		
Session 3 A Room ACM15 (A) 2.1.021 Business Models in 5G **(20 + 5 mins / Presentation)** Session Chair: Iwona Windekilde	**Session 3 B** Room ACM15 (A) 2.1.025 Broadband and Convergence of Networks **(20 + 5 mins / Presentation)** Session Chair: Lene Sørensen	**Session 3 C** Auditorium Network Infrastructure and 5G **(20 + 5 mins / Presentation)** Session Chair: J.J. V. Olmos
• Blockchain Network Slice Broker in 5G, *Jere Backman* • Business and Market Perspectives in 5G Networks, *Alexandros Kostopoulos* • Roadmap to 5G success Influencing Factors and an Innovative Business Model, *Dimitris Xydias* • Challenges for ICT Business Development in Intelligent Transport Systems, *Jan Markendahl*	• Methodology for the Introduction of VaR Estimation in Telecommunications' Diffusion Forecasting, *Nikolaos Kanellos* • A revisit of Fixed and Mobile Broadband diffusion in OECD: A new classification, *Elias Aravantinos* • Fixed-mobile convergence in telecom markets: Evidence from Greece, *Eleni Laitsou* • Understanding the Impact of Costly Search on Market Equilibria: A Comprehensive Review, *Vangelis Logothetis*	• Trends and challenges in the design of hardware platforms for IoT devices, *Jens Sparsø* • ThingPot: an interactive Internet-of-Things honeypot, *Fernando Kuipers* • Super Infrastructure and Systems to support IoT and 5G systems, *Idelfonso Tafur Monroy*

15:40 – 16:00	Break

Academic Parallel Sessions 16:00 – 17:40	
Session 4 A Room ACM15 (A) 2.1.021 Smart Cities and New technologies **(20 + 5 mins / Presentation)** Session Chair: Jan Markendahl	**Session 4 B** Room ACM15 (A) 2.1.025 Security I **(20 + 5 mins / Presentation)** Session Chair: Henning Olesen
• IoT based Emergency and Operational Services in Medical Care Systems, *Sari I. Lakkis* • "Factors in smart cities in the developing world: A case study in Vietnam", *Thai Do Manh* • Scenario Planning for 5G Light Poles in Smart Cities, *Bahareh Gholampooryazdi* • Culturally based user resistance to new technologies in the age of IoT in Developing Countries: Perspectives from Ethiopia, *Joseph Kofi Wireko*	• Blockchain-Based structures for a secure and operate IoT, *Alexander Kuzmin* • A Proposed Data Science Approach for Email Spam Classification using Machine Learning Techniques, *Aakash Alurkar* • An Application of Trust in Predictive Maintenance, *Cicek Guven*

19:15	**Meet at Tivoli Entrance, Vesterbrogade 3, 1630 Copenhagen V** Tel. no. Samant Khajuria from CMI: **+45 6083 4568**
19:30	**Conference dinner at restaurant Brdr. Price in Tivoli**

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Friday 24th November 2017 (Day 2)	
09:00 – 09:10	**Welcome**
09:10-11:00 Session 5 **Innovative Applications and Business Cases in IoT** **Session Chair: Morten Falch**	
09:10 - 09:30	*How to build digital products that your customer wants and capitalise on consumer use of mobile* **Simon Færch**, Head of Digital Product Innovation, Coop Technology
09:30 - 09:50	*Internet of Things - it is happening now* **Claus Klint**, Sales Director IoT, IBM Analytics
09:50 - 10:10	*Cellular IoT, Connectivity is not the Thing* **Franz Voglhofer**, Radio Access Network Specialist | RAN Development Global Services and Operation, Telia Company
10:10 - 10:30	*Danfoss IoT Solutions – Technology and Business models* **Søren Hesseldahl**, Frontend Innovation Director, Danfoss A/S
10:30 - 11:00	Discussion Panel
11:00 – 11:20	**Break**
Academic Parallel Sessions **11:20 – 13:00**	

Session 6 A **Room ACM15 (A) 2.1.021** Security II **(20 + 5 mins / Presentation)** Session Chair: Samant Khajuria	**Session 6 B** **Room ACM15 (A) 2.1.025** **(Graduate Master Student Session)** **(20 + 5 mins / Presentation)** Session Chair Reza Tadayoni
• A Question of Context: Enhancing Intrusion Detection by Providing Context Information, ***Simon Duque Anton*** • Personality Traits and Cyberattack Victimisation: Multiple Mediation Analysis, ***Samar Muslah Albladi*** • A Formalization of Computational Trust, ***Cicek Guven***	• Danfixx - Innovating Smart Home Heating, ***Daniel Jacobsen*** • GET - visual overview of local food assortments, ***Christian Ritter*** • Improving waste management and waste collection with IoT, ***Manuel Maestrini*** • Market Permeability of Connected car application platforms, ***Ishaqur Rahman***
13:00 - 14:00 **Lunch across the bridge in building B**	

Academic Parallel Sessions 14:00 – 15:40	
Session 7 A **Room ACM15 (A) 2.1.021** Platforms for IoT **(20 + 5 mins / Presentation)** Session Chair: Per Lynggaard	**Session 7 B** **Room ACM15 (A) 2.1.025** 5G Spectrum and operator strategies **(20 + 5 mins / Presentation)** Session Chair: Jannick Kirk Sørensen
• On the role and potential of IoT in different industries, *Jan Markendahl* • "IoT-Communications as a Service: Actor Roles on Indoor Wireless Coverage.", *Mohammad Istiak Hossain* • An Overview of Wireless IoT Protocol Security in the Smart Home Domain, *Víctor J. Expósito Jiménez* • Internet of Things – the battle of standards, **Anders Henten**	• Framework for Spectrum Authorization Elements and its Application to 5G Micro-Operators, *K. B. Shashika Manosha* • Frequency spectrum as the investment: an agent-based approach for modeling operator's strategies, *Juraj Gazda* • Effects of budget on investor's behaviour in the secondary spectrum market, *Jana Zausinov* • 5G Transformation: How Mobile Network Operators are Preparing for Transformation to 5G ?, *Ali Sarfaraz*

15:50 – 16:00	**Closing Day 2**
16:00 -	**Networking / Social (FKJ12, 3rd floor)**