



# Towards a Connected and Automated Society

30th ITS European Conference  
Espoo, Finland, 16<sup>th</sup> - 19<sup>th</sup> June 2019



## Programme Overview, 16<sup>th</sup> – 18<sup>th</sup> June

Sunday, June 16		Monday, June 17		Tuesday, June 18	
		08:30 - 09:00	Registration		
		09:00 - 10:30	Opening session	09:00 - 10:30	Parallel sessions 4
		10:30 - 11:00	Coffee	10:30 - 11:00	Coffee
		11:00 - 12:30	Parallel sessions 1	11:00 - 12:30	Parallel sessions 5
		12:30 - 13:30	Lunch	12:30 - 13:30	Lunch
		13:30 - 15:00	Parallel sessions 2	13:30 - 15:00	Parallel sessions 6
		15:00 - 15:30	Coffee	15:00 - 15:30	Coffee
		15:30 - 17:00	Parallel sessions 3	15:30 - 17:00	Parallel sessions 7
18:00 - 20:00	Welcome reception, Fat Lizard Restaurant	17:00 - 20:00	Industry Night, Visit to Nokia Campus and Executive Experience Center (bus transport)	18:00 - 21:00	Conference Dinner, Walhalla Restaurant (boat to Suomenlinna fortress island)

17<sup>th</sup> June 2019

Opening session 09.00 – 10.30

	Location: U4
Opening session	<p><b>Welcome speeches</b></p> <p>Stephen Schmidt, Chairman, International Telecommunications Society Prof. Jyri Hämäläinen, Dean, School of Electrical Engineering, Aalto University Dr Brigitte Preissl, ITS Europe</p> <p><b>Panel: Network Security, Integrity, Resilience</b></p> <p><i>Moderator:</i> Georg Serentschy - Serentschy Advisory Services, Austria <i>Confirmed speakers:</i></p> <p>Wolfgang Schwabl - Cyber Security Officer, A1 Group, Austria; Co-Head of the Cyber Security Platform (CSP), Austria Afke Schaart – Vice President and Head of Europe, Russia and CIS, GSMA; GSMA Board Member Matthew Kirk - International Affairs Adviser, Squire Patton Boggs, UK Paul Timmers - Visiting Research Fellow, Centre for Technology and Global Affairs, Oxford University, UK</p>
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Parallel Session 1: 11.00 - 12.30

Autonomous vehicles	Broadband - investment	Artificial Intelligence 1	5G	Regulation 1
Location: U119 Deloitte	Location: U6 Konecranes	Location: U1	Location: U3	Location: U5
<p><b>Latruwe, Verbrugge &amp; Colle</b> - Why hasn't floating car data disrupted the traffic management industry yet?</p> <p><b>Pearl</b> - Hands off the wheel: The coming case for banning human-driven vehicles</p> <p><b>Mitomo</b> - Conceptual Modeling of the diffusion of the connected: An implication for autonomous driving</p>	<p><b>Matteucci &amp; Faggian</b> - Broadband investment in Italy: A municipality-level analysis</p> <p><b>Sahebal, Sadowski, Nomaler &amp; Brennenraedts</b> - Infrastructure rollout and fibre provision: The case of NGN in the Netherlands</p> <p><b>Liang, Aimene &amp; Lebourges</b> - Estimating the impact of co-investment in fiber to the home: Coverage, adoption and competition</p>	<p><b>van der Vorst &amp; Jelcic</b> - AI and personalized learning. Can AI bring the full potential of personalized learning to education?</p> <p><b>Levin, Schmidt &amp; Balmer</b> - Artificial and augmented intelligence applications in telecommunications -- From theory to practice</p> <p><b>Kim &amp; Nam</b> - Analyzing continuance intention of recommendation algorithms</p>	<p><b>Pápai, McLean, Csorba &amp; Nagy</b> - Economising on network provision while preserving competition: the challenges of 5G mobile network sharing</p> <p><b>Kantola</b> - European net neutrality: A hindrance to 5G success</p> <p><b>Jurva &amp; Matinmikko-Blue</b> - Stakeholder analysis for digital campus development with 5G micro operators</p>	<p><b>Alleman, Baranes &amp; Rappoport</b> – Multisided markets and platform dominance</p> <p><b>Haucap</b> - Competition and regulatory policy reforms for digital markets</p> <p><b>Lehr, Clark &amp; Bauer</b> - Regulation when platforms are layered</p>
<p>Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.</p> <p>Follow the ITS on Twitter via @IntTlcSoc and tweet about the conference using #ITSEurope2019</p>				

Parallel Session 2: 13.30 - 15.00

Mobile Policy and technological interventions in markets	ICT & economic change	Panel session – Blockchain: Innovation in distributed governance in the cryptosphere
Location: U3	Location: U5	Location: U4
<p><b>Teklemariam &amp; Kwon</b> - How should broadband policies be changed with diffusion level? A worldwide empirical analysis</p> <p><b>Castells, Bahia &amp; Pedros</b> - The impact of mobile technology on economic growth: Global insights from 2G, 3G and 4G deployments</p> <p><b>Gerli, Navio &amp; Whalley</b> - Does the multilevel governance of state aid encourage broadband diffusion? Evidence from three European countries</p>	<p><b>Jeanjean &amp; Ciriani</b> - Competition, technological change and productivity gains: the contribution of information technologies</p> <p><b>Maliki &amp; Sour</b> – ICT and technological capacity: A regression analysis on some European countries and emerging countries</p> <p><b>Banerjee, Rappoport &amp; Alleman</b> - A cross-country analysis of ICT diffusion, economic growth, and global competitiveness</p>	<p>Moderator: Bronwyn Howell, Victoria University of Wellington, New Zealand</p> <p><i>Speakers</i></p> <p>Bronwyn Howell, Victoria University of Wellington; American Enterprise Institute - <i>Industry Self-Regulation of Cryptocurrency Exchanges</i></p> <p>Petrus Potgieter, University of South Africa - <i>The techno-economic content of your crypto wallet</i></p> <p>Juri Mattila, Research Institute of the Finnish Economy - <i>Smart contracts and blockchain</i></p>
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Parallel Session 3: 15.30 - 17.00

Media	Broadband – uses and benefits	Artificial Intelligence 2	5G - uses	Online services
Location: U119 Deloitte	Location: U6 konecranes	Location: U1	Location: U3	Location: U5
<p><b>Chen &amp; Wen</b> – Facebook’s algorithms, fake news and Taiwan’s 2018 local election</p> <p><b>Takemura</b> - Media repertoires of Japanese old users in the digital media environment</p> <p><b>Lee, Kim &amp; Lim</b> - Special issues have got something? An overview of research trends in Telecommunications Policy special issues</p>	<p><b>Briglauer, Duerr &amp; Gugler</b> - A retrospective study on the benefits and costs of a national high-speed broadband plan: Evidence from the German counties</p> <p><b>Martins &amp; Wernick</b> - Geographical differences in residential demand for ultrafast broadband internet in 2025</p> <p><b>Hasbi &amp; Dubus</b> - Determinants of mobile broadband use in developing economies: Evidence from Nigeria</p>	<p><b>Shin</b> - Socio-technical design of algorithms: Fairness, accountability, and transparency</p> <p><b>Garcia-Murillo &amp; MacInnes</b> - The impact of AI on employment: a historical account of its evolution</p> <p><b>Longstaff</b> - Artificial Intelligence: Governments large and small take on the Issue</p>	<p><b>Nystrom &amp; Gugenishvili</b> - Business opportunities in 5G mobile technology</p> <p><b>Pearl</b> - Utilizing 5G Infrastructure for Enhanced Transparency in Climate Habits</p> <p><b>Frias, Mendo &amp; Oughton</b> – Evolving mobile networks towards 5G. A methodology to infer the state of connectivity infrastructure in dense urban areas</p>	<p><b>Fujisawa &amp; Kasuga</b> - Why do cloud providers prefer renting to selling? A supply-side perspective</p> <p><b>Sobolewski</b> – Welfare changes from using free digital services and sharing personal data: The case of navigation apps and user location data</p> <p><b>Garín-Muñoz, Lopez, Valarezo-Unda, Pérez-Amara &amp; Herguera</b> - E-commerce and digital divide in Spain using individual panel data 2008-2016</p>
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18<sup>th</sup> June 2019

Parallel Session 4: 09.00 - 10.30

IOT & Spectrum	Broadband	5G – regulatory issues	Adopting technologies	Online services
Location: U119 Deloitte	Location: U6 Konecranes	Location: U1	Location: U3	Location: U5
<p><b>Baum</b> - Airports, a City-As-A-Platform, where IoT technology can mature</p> <p><b>Tripathi, Phillips &amp; Sorell</b> - Bring your own spectrum (BYOS) – A tiered architecture supporting flexible spectrum allocation</p> <p><b>El-Moghazi &amp; Whalley</b> - The international radio spectrum management: A regime theory analysis</p>	<p><b>Logothetis, Ioannou, Tselekounis, Katsianis, Chipouras &amp; Varoutas</b> – Ex post regulation of NGA networks: A roadmap for calculating the cost of an efficient operator – The case of Greece</p> <p><b>Queder</b> - Infrastructure competition between HFC-networks and FTtx in Europe – An empirical perspective</p> <p><b>Li &amp; Chen</b> - Critical development factors in infrastructure for the communications industry—based on wholesale leased line services in Taiwan</p>	<p><b>Jochum, Laudan &amp; Vidal</b> - Germany's 5G auction: Four popular misconceptions in a heated debate</p> <p><b>Basaure &amp; Finley</b> - Urban 5G regulation: local licensing versus coopetition</p>	<p><b>Badran &amp; Whalley</b> – More mundane than Skynet? AI in healthcare in developing countries</p> <p><b>Bouwman, Vitkauskaitė &amp; Varaniute</b> - Evaluating SMEs readiness to transform to IOT-based business models</p> <p><b>Tahiru &amp; Agbesi</b> – Driver and barriers of ICT adoption in revenue collection in Ghana</p>	<p><b>Andres, Niebel &amp; Viète</b> – Firm-level cloud adoption: The role of firm characteristics and policy environments</p> <p><b>Jull</b> - Digital advertising and purchasing: Fun or a new type of deception?</p> <p><b>Sudtasan</b> - Complements and substitutes between chatbots and humans: Corporate perspectives</p>
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Parallel Session 5: 11.00 - 12.30

Regulation 2	Zero-rating & OTT	Mobile - Operators	5G - Spectrum	Online services
Location: U119 Deloitte	Location: U6 Konecranes	Location: U5	Location: U3	Location: U1
<p><b>Kawamata</b> - Geo-political economy &amp; culture and connected life in Asian ICT markets</p> <p><b>Streeel &amp; Jacques</b> - Personalised pricing and EU law</p> <p><b>Fredebeul-Krein</b> - The CETA-agreement on telecommunication services – A blueprint for a future WTO accord in multilateral trade liberalisation?</p>	<p><b>Hoernig &amp; Monteiro</b> - Zero-rating and network effects</p> <p><b>Jirakasem &amp; Mitomo</b> - Relationship of Over-The-Top (OTT) communications services and traditional telecommunications: The case of Thailand</p> <p><b>Park &amp; Kwon</b> - OTT firms as catfish transform the broadcasting industry structure: Analyzing the effects of broadband networks</p>	<p><b>Liang &amp; Jeanjean</b> - Impact of mobile operators' consolidation on unitary price.</p> <p><b>Reddy, Bielov, Finley, Kilkki, Mitomo &amp; Hämmäinen</b> - The efficiency of mobile network operators from a data service perspective</p> <p><b>Whalley &amp; Curwen</b> - A tale of two continents: The internationalisation of Millicom in Africa and Latin America</p>	<p><b>Yeon, Kim, Byun &amp; Kim</b> – Provision of 5G cellular service: case of Korea and policy issues</p> <p><b>Singh &amp; Sicker</b> - Beyond 5G: THz spectrum futures and implications for wireless</p> <p><b>Matinmikko-Blue, Yrjölä, Ahokangas, Seppänen, Hämmäinen &amp; Jurva</b> - Value of the spectrum for local mobile communication networks: Insights into awarding and pricing the 5G spectrum bands</p>	<p><b>Song, Zhang, Qi &amp; Lu</b> – Research on the impact of the blockchain authenticated information on consumers' perception towards traceable products: Evidence from JD</p> <p><b>Lopez</b> - Building a panel database on household ICT usage in Spain</p> <p><b>Koguchi &amp; Maeda</b> - What would be the appropriate amount of compensation for information leaks? Estimating the amount that different service providers may be willing to offer</p>
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Parallel Session 6: 13.30 – 15.00

Technological entrepreneurship 1	Mobile	Data	Panel session – Net neutrality
Location: U1	Location: U5	Location: U3	Location: U4
<p><b>Goumagias, Whalley &amp; Cunningham</b> - Do unicorns exist in China? A study of the Chinese technological start-up ecosystem</p> <p><b>Armú Ña, Ramos, Feijoo &amp; Arenal</b> - Entrepreneurship competences: New skills for a knowledge-based society</p> <p><b>Caceres-Diaz, Usero-Sanchez &amp; Montoro-Sanchez</b> - Digital infrastructure and entrepreneurship: The digital era's enabling effect</p>	<p><b>Foros &amp; Kind</b> - A note on "build or buy" incentives for a mobile market entrant</p> <p><b>Kawaguchi, Kuroda &amp; Sato</b> - Merger analysis in the mobile apps market: Market definition and merger simulation</p> <p><b>Jain</b> - Role of institutions in transition to market oriented spectrum reforms in emerging economies</p>	<p><b>Nikander &amp; Elo</b> - Will the data markets necessarily fail?</p> <p><b>Benseny, Walia &amp; Hämmäinen</b> - Feasibility of the city-driven neutral host operator</p> <p><b>Bounie, Dubus &amp; Waelbroeck</b> - Collecting and selling personal information: the two faces of data brokers</p>	<p>Moderator: Volker Stocker, TU Berlin, Germany</p> <p><i>Speakers</i></p> <p>Georgios Smaragdakis – TU Berlin, Germany</p> <p>Scott Marcus – Bruegel, Belgium</p> <p>Ignacio Castro - Queen Mary University of London, UK</p> <p>Raimo Kantola - Aalto University, Finland</p>
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Parallel Session 7: 15.30 – 17.00

Technological entrepreneurship 2	Platforms & investment	Mobile broadband	5G	Consumer issues
Location: U119 Deloitte	Location: U6	Location: U1	Location: U3	Location: U5
<p><b>Binsfeld &amp; Whalley</b> - Innovation ecosystems in small countries – The case of Luxembourg</p> <p><b>Ryu &amp; Cho</b> - A health assessment of IOT Ecosystem: Focusing on characteristics of key actors of the ecosystem</p> <p><b>Arenal, Feijoo, Armuña &amp; Ramos</b> - Technology-based entrepreneurship in the EU: a critical review on the shortcomings of the EU policy agenda</p>	<p><b>Raizonville &amp; Bourreau</b> – Platform cooperation in two-sided markets</p> <p><b>Knieps</b> – Internet of Things and the network economics of operator platforms</p> <p><b>Henten &amp; Falch</b> - Symmetric telecom regulation, competition and investment</p>	<p><b>Sobolewski &amp; Czajkowski</b> – Fixed and mobile substitution and broadband market definition revisited: Evidence from massive consumer survey</p> <p><b>Navío-Marco, Pérez-Leal &amp; Ruiz-Gómez</b> - Analysis of Wifi4EU initiative as an instrument to correct market failures in telecommunication infrastructure deployments in the EU</p> <p><b>Shinohara</b> - A study of diffusion of innovation: Mobile broadband adoption in developed and developing countries</p>	<p><b>Bauer &amp; Lehr</b> - Enabling a trustworthy decentralized measurement platform for the 5G future</p> <p><b>Barua, Matinmikko-Blue &amp; Latva-Aho</b> - On design of contracts between traditional MNOs and local 5G micro operators</p> <p><b>Sararaz &amp; Hämmäinen</b> - Radio access network traffic forecast analysis for mobile network operators in anticipation of 5G</p>	<p><b>Idota, Nakaya &amp; Tsuji</b> - Why consumers commit voluntarily to collaborative innovation with firms by using social media? Case of Japanese consumers</p> <p><b>Tseng</b> - The digital cable TV pricing mechanism and the consumer preference: The survey in Taiwan</p> <p><b>Castells, Pedros &amp; Sivakumaran</b> - The mobile tax bill: How mobile is impacted by sector-specific taxes</p> <p><b>Kilkii &amp; Hämmäinen</b> – Value of time in the context of communication services</p>
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Venue – Undergraduate Centre  
The conference will take place in rooms marked 'U' which are in green below.



**1** kerros  
våning  
floor