

28th European Conference of the International Telecommunications Society

Competition and Regulation in the Information Age

July 30 – August 2, 2017 / Passau, Germany



PROGRAMME OVERVIEW

Sunday, 30 th July		Monday, 31 st July		Tuesday, 1 st August		Wednesday, 2 nd August	
		08.30 – 09.30	Registration (at town hall)	09.00 – 10.30	Parallel sessions 3	09.00 – 10.30	Parallel sessions 6
		09.30 – 10.00	Opening and welcome address	10.30 – 11.00	Coffee	10.30 – 11.00	Coffee
		10.00 – 11.30	Keynote address	11.00 – 12.30	Panel session	11.00 – 12.30	Parallel sessions 7
		11.30 – 12.00	Coffee	12.30 – 13.30	Lunch	12.30 – 13.00	Closing session
		12.00 – 12.30	Transition to university	13.30 – 15.00	Parallel sessions 4	13.00 – 14.00	Lunch
		12.30 – 13.30	Lunch	15.00 – 15.30	Coffee	15.00 – 17.00	Guided city tour
		13.30 – 15.00	Parallel sessions 1	15.30 – 17.00	Parallel sessions 5	17.00 – 18.00	Cathedral & organ tour
		15.00 – 15.30	Coffee	18.30 – 23.00	Conference dinner		
		15.30 – 17.00	Parallel sessions 2				
		17.00 – 17.30	Coffee				
		17.30 – 19.00	Panel session				
19.00 – 22.00	Welcome reception						

Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.

CONFERENCE LOCATIONS

Passau city map

IBB City Center

Hotel Am Paulusbogen

Gala Boat Regina Danubia: Conference Dinner

Hotel Wilder Mann

Loewen.Brau.Haus: Welcome Reception + Großer Rathausaal, Altes Rathaus: Welcome Address

Train station

University refectory, Innstrasse 29

Conference Venue, Innstrasse 27, WIWI School of Business, Economics and Information Systems

Hotel Weisser Hase

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WELCOME

Welcome Message from ITS Chair, Stephen Schmidt

Dear Conference Participants,

It is a great pleasure to welcome you to Passau, Germany, for the 28th European Regional Conference of the International Telecommunication Society (ITS).

Passau is a city of great beauty and history. Its roots can be traced at least as far back as Roman times. Passau is also known as the *Dreiflüssestadt* or "City of Three Rivers," because it is located at the confluence of the Danube, Inn and Ilz rivers. Passau is noted for its splendid baroque architecture, including St. Stephen's Cathedral, which was built at the end of the 17th century. Our host institution, the University of Passau, while founded in the 20th century, can also trace its roots back to the 17th century through predecessor institutions.



This 28th European Regional Conference of the ITS provides a platform for sharing new ideas and research; an opportunity to advance dialogue between academia, government and industry; and the chance form new friendships and renew existing ones – all against the backdrop of a beautiful and historic city.

We are thankful for the resources and commitment of our host institution, the University of Passau, and for the countless hours of effort invested by the conference organizers to achieve this success. We are particularly grateful to Dr. Jan Krämer, the local conference organizer, for his vision and commitment, and to Dr. Jason Whalley and Dr. Brigitte Preissl, of ITS Europe, for their unwavering dedication to the success of ITS in Europe.

The information age, where information and data have become a crucial good and production factor, has brought about several business disruptions in the telecommunications and media industries. This includes the phenomenon of digital convergence, which has caused the boundaries between traditionally distinct regulatory realms, such as communications and media services but also between communications and information services, to become blurred. This has not only fundamentally changed how we communicate, and how we consume (digital) goods, but possibly also implies fundamental changes on how these markets should be regulated. In this vein, new business models and regulation associated with digital convergence also bring about several opportunities and challenges, e.g., for designing a smarter world (e.g., in the context of smart cities and smart grids), for closing the digital divide (e.g., zero-rated information services), or for empowering and protecting consumers (e.g., consumer privacy).

This European Regional ITS Conference addresses these and related issues, from a regulatory as well as a consumer and firm perspective, as well as their implications for Europe's dynamic information and telecommunications market. Many of the papers to be presented at this conference deal with the issues of a "level playing field" between traditional telecommunications services and new Over-The-Top players,

and the role of data in the Internet economy, both from a business as well as from a regulatory perspective. The conference papers also showcase the different regulatory approaches that are pursued in different regions of the world, particularly North America, Asia and Europe. For example, whereas in Europe digital platforms (e.g., Facebook, Uber or Booking.com) are becoming more and more regulated, with several competition cases, e.g., against Google and Facebook on the way, there is comparatively limited regulation in the US.

ITS is an association of professionals in the information, communications, and technology sectors. ITS is an independent, non-aligned and not-for-profit organization with a worldwide network of about 300 members. ITS provides a forum where academic, private sector, and government communities can meet to identify pressing new problems and issues, share research results, and form new relationships and approaches to address outstanding issues. ITS focuses on the evolving applications, services, technology, and infrastructure of the communications, computing, Internet, information content, and related industries. The goal of ITS is to research and analyze issues related to the emergence of a global information society. The organization places particular emphasis on the interrelationships among socioeconomic, technological, legal, regulatory, competitive, organizational, policy, and ethical dimensions of the issues it addresses.

I look forward to meeting as many of you as possible at the conference and to engaging in our collective discussion of issues of pressing importance to the communications industry, in general, and to digital societies more broadly.

Sincerely,



Stephen Schmidt
ITS Chair

Welcome Message from the Conference Organisers

Dear Conference Participants,

On behalf of the organizing team, we would also like to welcome you to the 28th European Regional Conference of the International Telecommunications Society, hosted by the University of Passau.

Since opening in 1978, the University of Passau has quickly developed an international reputation for its interdisciplinary and international academic profile. Today, the University community consists of 122 professors; 564 academic staff members, many of which belong to the 430 early career researchers of the University; 425 academic support staff; and 12,000 students from 100 countries, 60% of whom are female.

The conference takes place on the university's award-winning, state-of-the-art campus, which is located in the city centre of Passau. Passau is widely considered one of the most beautiful and vibrant cities in Germany. It is home to 50,000 people, and is situated in southeast Bavaria in the very heart of Europe between the metropolitan centres of Prague, Munich and Vienna. The city is both a popular international tourist destination – around two million tourists visit each year – and an ideal place to live, work and study. This is thanks to Passau's manageable size, up-to-date infrastructure, a rich cultural scene, an engrained entrepreneurial spirit and, most importantly, a strong sense of togetherness and support among its citizens. In all respects, the University reflects and promotes this spirit and has become a deeply embedded, integral part of the city of Passau.

Over the past decade, the four faculties of the University of Passau (Faculty of Law, Faculty of Arts and Humanities, Faculty of Business, Economics, and Information Systems, and Faculty of Computer Science and Mathematics) have developed a particular interest in the societal implications of digitalization, culminating in the University's mission of conducting "science for the networked society." The underlying premise of this research identity is that digitalization and global networking are increasingly affecting all areas of our society—culture, economy, education, government, media, politics and the state. Thanks to the particular combination of faculties, the University is uniquely placed to realize its vision of becoming one of Europe's leading centres for research on the societal implications of digitalization by 2028, the year of its 50th anniversary. Thus, the University of Passau is an ideal host in light of this year's conference theme - "*Competition and Regulation in the Information Age*".

This is the 28th European Regional ITS conference and the third to be held in Germany, after Stuttgart in 1992 and Berlin in 2004. While only a handful of countries were represented in the first German conference, today we welcome participants from 28 countries coming from all five continents of the world. This is another European ITS conference that illustrates its pan-European character, not only by being located in a different host country every year, but also by highlighting its engagement with the world.

We are, therefore, very grateful for the many paper submissions and panel proposals that were received – more than 120 in total – and which make this conference an

exciting location for the exchange of ideas on virtually all aspects of digitalization and communication. In addition, are also very grateful for the time and effort that the distinguished invited speakers from academia, industry and government have invested in order to share their ideas and experiences in the form of keynote speeches and plenary panel discussions with us. Details on the invited speakers can be found on pages 13-16 in this booklet.

As a new feature to this year's European ITS conference, we are also pleased to be able to award the *ITS Europe Young Academic Best Paper Award* for the first time. For this award, all full papers were eligible whose authors completed their Ph.D. less than five years ago. The best paper was selected by a prize committee composed of Erik Bohlin, Jan Krämer, Stephen Schmidt, and Jason Whalley. We are particularly indebted to Stephen Schmidt and TELUS for sponsoring this award.

Next to the scientific programme, the conference also has an exciting social programme. This includes a welcome reception on the town hall square with traditional Bavarian beer, food and music; a conference dinner during a cruise along the Danube river, and the opportunity to take part in a guided city tour, including a visit of St. Stephens cathedral, which is home to the world's largest church organ.





In closing, we would like to thank those who have greatly contributed to organizing this conference. Specifically, we would like to thank the Lord Mayor of Passau, Jürgen Dupper, for hosting the welcome session in the city hall and for furnishing free tickets to the Veste Oberhaus museum; the president of the University of Passau, Professor Carola Jungwirth, for hosting the conference in the university's facilities; Stephen Schmidt from ITS World for supporting this conference from the beginning; and, last but not least, numerous local helpers, especially, Katrin Gleixner, for her diligent support in organizing this event.

Finally, we wish you a successful conference, with many memorable experiences, exciting new contacts, and fruitful insights for future work. Should you have any further questions, please do not hesitate to contact us.

Sincerely,

Jan Krämer (Local Organiser)
Brigitte Preissl (ITS)
Jason Whalley (ITS)

IMPORTANT INFORMATION FOR CONFERENCE PARTICIPANTS

- **Conference website & travel information:** The conference website is <http://www.itseurope.org/2017>. Here you can find up to date information, particularly also on how to get to Passau from the airports located nearby.
- **Reception Desk:** If you have any questions, please do not hesitate to contact the reception desk. It is open from Monday 8.30 a.m. - 7.00 p.m, Tuesday 8.30 a.m. - 5.00 p.m., Wednesday 8.30 a.m. - 2.30 p.m
- **Local Helpers:** If you have questions on directions or other local information, please do not hesitate to contact the local helpers. You can recognize them by the University of Passau logo on their nametags.
- **Conference Papers:** The conference papers and supplementary material can be downloaded at: <http://tinyurl.com/itspassau>. The password is given to you at the reception desk. 
- **Session chairs:** The last presenter in each session is automatically the session chair. Please be early to your session and consider and follow the instructions for session chairs on page 36 of this booklet.
- **Speakers:** Please be early to your session, so that the session chair can confirm your attendance. Load your presentation on the presentation computer, and please adhere to the time warnings of the session chair. Best practices for speakers can be found on page 36 of this booklet.
- **Twitter:** Follow us on twitter: **@itspassau** and be sure to include **@itspassau** and **#itspassau** in your own tweets, so we can retweet them. 
- **WiFi (eduroam):** The university of Passau is part of the eduroam project. Hence, you can use our eduroam WiFi if you have already registered at your home university. 
- **WiFi (guest account):** If you are not using eduroam, there are guest accounts provided for you to access the internet. Please find in your registration envelope a personal activation code ("Freischaltkennung") including further information. German law requires us to be able to uniquely identify each user. Therefore, please fill in the lower part of the paper (it is marked with "Please return to ZIM der Universität Passau"), sign it and return it back to us at the reception desk. 
- **Parking at the University:** It is possible to use the carpark of the university. The entry is between the Innstraße 29 (Mensa) and the Innstraße 31 (Audimax). Parking is for free. From Monday onwards, the carpark is opened during the building opening hours (at night it is closed).
- **Luggage room:** We have a luggage room available at the conference venue. Please contact the reception desk if you want to use it.

- **Lunch:** The university refectory “Mensa” is close the WiWi building where the conference takes place. You can select a menu freely in the refectory and pay with the voucher that you find in the envelope given to you during registration. Each voucher is valid for a specific date. The menu for the current week is available at <https://stwno.de/de/gastronomie/speiseplan/uni-passau>. Try out the Bavarian dishes!

Directions: Take the stairs inside the WiWi building up to the second floor, go outside and cross the campus square. On the left (just before an arch), you will find the entrance to a cafeteria and the refectory which is located downstairs. A designated area is reserved for ITS participants.

- **Public Transportation / Bus:** You can conveniently walk all distances between the hotels, conference venues and main sights of attraction. The walk will never take longer than 20 minutes. If you still prefer to use the bus, then you probably have to transition at the main bus station, which is called “ZOB”. All buses go there and buses leave every 15 or 30 minutes in all directions. The last buses leave at around 11 pm/11.30 pm.

Two buses are of special interest to conference participants:

- 1) *CityBus* (from city to ZOB). The CityBus goes from the train station (“Hauptbahnhof”) via ZOB and town hall (“Rathaus”) to Römerplatz and back. It leaves from 6.45 a.m. to 6.30 p.m. every 15 minutes and from 6.30 p.m. to 8 p.m. every 30 minutes. You can look up the route here: <http://tinyurl.com/passaucitybus>
 - 2) *Bus 8 or 9* (from ZOB to University): It is a really short walk from the ZOB to the University. If you want to still use the bus, then look out for Bus 8 or 9 going into direction “PEB/Kohlbruck” or “Kohlbruck/Erlebnisbad”. It leaves at platform 3 at ZOB, every 30 minutes, beginning at 6.30 a.m. It is just 2 stops from ZOB to “Universität”.
- **Taxi:** You can order a taxi in Passau by calling **+49-851-57373**
 - **Emergency:** In emergency situations, you can contact the local police by calling 110, and the fire department or ambulance by calling 112

MEMBERS OF THE CONFERENCE ORGANISATION TEAM

Matthias Achleitner (Local Helper)
Tanja Fenn (Local Helper)
Katrin Gleixner (Local Organisation)
Jan Krämer (Local Organisation)
Brigitte Preissl (ITS)
Daniel Schnurr (Social Media)
Nadine Stüdlein (Local Helper)
Jason Whalley (ITS)
Michael Wohlfarth (Social Media)
Sabine Müller (Website)

ABOUT ITS

What is ITS?

The International Telecommunications Society (ITS) is an association of professionals in the information, communications, and technology sectors. ITS is an independent, non-aligned and not-for-profit organization with a worldwide network of about 400 members. ITS provides a forum where academic, private sector, and government communities can meet to identify pressing new problems and issues, share research results, and form new relationships and approaches to address outstanding issues. ITS focuses on the evolving applications, services, technology, and infrastructure of the communications, computing, Internet, information content, and related industries. The goal of ITS is to research and analyze issues related to the emergence of a global information society. The organization places particular emphasis on the interrelationships among socioeconomic, technological, legal, regulatory, competitive, organizational, policy, and ethical dimensions of the issues it addresses.

How ITS Achieves its Goals

ITS achieves its goals by providing forums where academic, business, and government researchers as well as industry practitioners, policy makers, representatives of international bodies, and consultants present and discuss research results, and may interact in spontaneous ways. The most important of such forums is a series of ITS biennial international conferences. In response to specific needs as they develop, ITS also organizes local and regional symposia, seminars, workshops, and courses. If requested and found appropriate, ITS may also support -- in the form of participation, sponsoring, coordinating, or advising -- other organizations' conferences and events. ITS encourages and supports the participation of young researchers in its conferences. ITS disseminates research results and news to its members and to the general public via traditional and electronic means including *Telecommunications Policy*, the membership journal of ITS, the ITS Newsletter, and the ITS Web site, www.itsworld.org.

ITS Areas of Interest

The list below provides examples of current topics of interest to ITS' members. Areas of ITS interest include topics which have major impacts on the telecommunications industry. These topics are dynamic as new topics arise while others become less important reflecting the rapid pace of change in the industry. This list of examples is by no means inclusive, and by intent, the topics are not mutually exclusive reflecting different perspectives on similar issues as well as the complexity of many of these issues. Some of the forward-looking areas on the following list are also intended to reflect our strategic direction:

(1) The challenges and opportunities for traditional telecom providers in developed and developing countries in transitioning from their critically important role in voice telephony and its associated infrastructure to an expanded role in evolving to next generation networks and to a global information society where capacity requirements for data will far outweigh those for voice. A few examples of the many key issues in this evolution include:

- interoperability among heterogeneous network technologies and among applications
- quality of service
- the role of the Internet Protocol
- network infrastructure evolution scenarios
- alternative technological and economic arrangements among service providers
- pricing structure issues

(2) Application areas which may provide major societal and economic benefits including health care, education, electronic commerce, intelligent transportation systems, entertainment, advanced interpersonal communications, etc.

(3) Industry structure implications of the emergence of Applications Service Providers.

(4) Evolving infrastructure, services, and applications in industries that are converging, integrating, or competing with the traditional telecommunications industry such as the computing, Internet, entertainment, and information content industry. An example would be the prognosis for Internet Telephony in various market segments and its impact on traditional telecommunications firms.

(5) Emerging entrants into telecommunications from industries such as electric, gas and water utilities or transportation companies.

(6) Telecommunications sector transformation including corporatization, privatization, deregulation, commercialization, and competition.

(7) Business, technology, and policy issues related to alternative access technologies (e.g., xDSL, cable, wireless cable, etc.), access appliances (PCs, personal access devices, multi-function wireless phones, Web TV, etc.), transport technologies, switching/routing equipment, etc.

(8) In all of the above areas of interest, the research and analysis often includes one or more of the following:

- strategic analysis
- demand studies
- competitive analysis
- revenue, cost, and profitability impacts of change
- economy of scale and agglomeration
- analysis of alternative network architectures and technologies
- organizational analysis
- regulatory and policy analysis

In order to adapt to the ever-changing environment in which it operates, ITS periodically reviews the areas of its interests and activities.

ITS GLOBAL MEMBERS

AT&T



NERA

NERA
Economic Consulting

Deutsche Telekom



Nippon Telegraph and
Telephone Corporation
(NTT Corporation)



KDDI Research, Inc.



Orange



National Broadcasting
and Telecommunications
Commission of Thailand
(NBTC)



TELUS Communications



TIM Celular S.A. (TIM Brasil)



ITS NON-PROFIT / GOVERNMENTAL MEMBERS
BAKOM

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Bundesamt für Kommunikation BAKOM
Office fédéral de la communication OFCOM
Ufficio federale delle comunicazioni UFCOM
Uffizi federal da communicaziun UFCOM

**Center for Communication, Media, and
Information Technologies (CMI)**


Columbia Institute for Tele-Information (CITI)


Columbia Institute
for Tele-Information

**Department of Information and Communication Traffic,
Faculty of Transport and Traffic Sciences, University of Zagreb**


Department of
Information and Communication Traffic

University of Zagreb **Faculty of Transport and Traffic Sciences**



**InfoCom Research, Inc.
InfoCom Research, Inc.**

National Communications Commission, R.O.C. (Taiwan)


Pacific Telecommunications Council (PTC)


Taiwan Communications Society (TCS)


ZBW - Leibniz Information Centre for Economics


Leibniz-Informationszentrum
Wirtschaft
Leibniz Information Centre
for Economics

For complete details about ITS Corporate membership including membership categories, benefits, annual fees and how to become a member at the Corporate level, please visit the ITS website at www.itsworld.org or contact the ITS Secretariat at secretariat@itsworld.org

SCIENTIFIC PROGRAMME: INVITED SPEAKERS
KEYNOTE: “Regulatory inertia versus ICT dynamics”

 Monday, 31st July 2017, 10:00-11:30

Old town hall, Passau, Rathausplatz 2

INGO VOGELSANG
Boston University, USA

Ingo Vogelsang is Professor of Economics at Boston University. He has a doctorate from the University of Heidelberg, Germany, and has taught Economics at the University of Bonn before joining Boston University in 1981. His academic research focuses on regulation and competition in network industries with special emphasis on telecommunications and electricity. His work on incentive pricing has led to the price cap mechanisms that have been applied widely in network industries around the world. Vogelsang has published 16 books and many articles on network industries, and has advised regulators in many countries on these issues. He is an Associate Editor of *Information Economics and Policy*, and on the Editorial Board of *five other journals*.


POLICY PANEL: “The future of IP Interconnection”

 Monday, 31st July 2017, 17:30-19:00

Lecture hall 7, WiWi

Moderator: J. Scott Marcus

CARA SCHWARZ-SCHILLING
Federal Network Agency, Germany

Since 2002 Cara heads the Section Internet Economics at Bundesnetzagentur. She chairs/co-chairs the BEREC Working Group on NGN since 2006 (previously ERG). Fulfilling these functions she covered a broad range of topics dealing with the Internet including net neutrality, the roll-out of high speed broadband networks and IP-interconnection. From 2000-2002 she headed the Section Postal Economics at the former Regulierungsbehörde. Prior to joining BNetzA she was Senior Economist at the ‘Wissenschaftliches Institut für Kommunikationsdienste’ between 1996 and 1999. She studied Economics at the University of Bonn, University of Chicago, the London School of Economics and the University of Cologne. Diploma in 1985 (Bonn), Master of Science in Mathematical Economics and Econometrics 1987 (LSE), Doctoral degree 1995 (Cologne). From 1988-1992 she worked as researcher with the „Energiewirtschaftliches Institut and der Universität Köln“ completing research and consulting work on competition and regulation in the energy sector. From 1992-1995 she served as Assistant Professor at the Staatswissenschaftliches Seminar der Universität Köln, Lehrstuhl von Weizsäcker focusing on Industrial Organization and Antitrust Policy.



FALK VON BORNSTÄDT
Deutsche Telekom, Germany



Falk von Bornstaedt joined the Deutsche Telekom Group in 1991. Since 2013 he is Head of Group Peering and IP Trading, in the business unit International Carrier Sales and Solutions (ICSS), part of the board area Europe and Technology. Before this he was heading the product management IP-Transit, Peering and CDN within the Business Unit Internet and Content. In this function he led the Deutsche Telekom Network into a Tier1 status and established the IP-transit business. Prior to joining ICSS, Falk held various positions within and Deutsche Telekom Group, where he was responsible for the international IP product portfolio from 1996. This involved setting up the IP MPLS VPN product lines. Before this, Falk was assistant to the CEO of Deutsche Telekom, responsible for international affairs and worked in the controlling unit at the Deutsche Telekom headquarters. In 2004, Falk von Bornstaedt started teaching as a visiting professor for Internet Economics at Freiburg University, since 2011 he is teaching at the Technical University in Berlin. He holds diplomas in economics from the universities of Bonn and Paris, and a Ph.D. in economics from Cologne University. He published several books, the last one on internet economics (Internetwirtschaft) appeared in 2014. Falk is an active member of the internet community, frequently at the EU and Global Peering Forum, RIPE meetings, and joined IETF in 2016. In 2014 Falk was elected for the DE-CIX customer advisory board.

WILLIAM LEHR
Massachusetts Institute of Technology, USA



Dr. William Lehr is a telecommunications/Internet industry economist and policy analyst with over twenty years of experience in academic research and industry consulting. He is currently a research scientist in the Computer Science and Artificial Intelligence Laboratory (CSAIL) at the Massachusetts Institute of Technology (MIT). Dr. Lehr's research focuses on the economic and policy implications of broadband Internet access, next generation Internet architecture, and the evolution of wireless technology. Dr. Lehr holds a PhD in Economics from Stanford, an MBA in Finance from the Wharton School, and MSE, BA, and BS degrees from the University of Pennsylvania.

HARALD SUMMA
eco und DE-CIX, Germany

Harald A. Summa, founder and CEO of eco – the Association of the German Internet Industry, has managed and developed both the eco Association and the Internet exchange DE-CIX since 1995, and has been CEO of DE-CIX GmbH since 2003, when it became an independent company. A vocal representative of the Internet industry in Germany and internationally, Summa has written numerous industry articles and frequently lectures on topics including communication, marketing and sales. From 1981 until 1992, he was a lecturer at the University of Cologne in Applied Informatics, and he is currently undertaking a Ph.D. at the University of Cologne in the Department of Business, Media and Technology Management. Through his work for eco and DE-CIX, Summa has helped to shape the legal and political framework for the liberalization of the telecommunications market in Germany, and has supported the development of Internet infrastructure from its inception in Europe, and, increasingly, throughout the world. He is the co-initiator of the European associations EURO-ISPA and Euro-IX, acts as an industry consultant, and serves on a range of advisory committees in Germany, at both the state and federal levels.



POLICY PANEL:

“Personal information markets: New business models for network operators?”

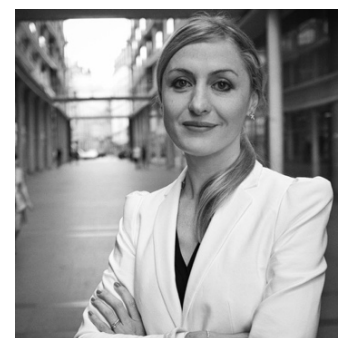
Tuesday, 1st August 2017 11:00-12:30

Lecture hall 7, WiWi

Moderator: Jan Krämer

MARIE CHARLOTTE ROQUES BONNET
Microsoft, France

Marie-Charlotte Roques-Bonnet is a data protection and digital fundamental rights' expert. She completed a Ph.D. in Public Communication Law on The Constitution and the Internet & updated a public version of those academic researches in 2010 (« Can the Law ignore digital revolution? »). Before joining Microsoft as Director of EMEA Privacy Policy in 2014, she's been teaching public law and digital communications (2002-2008) -and was granted the first Law Excellent Award attributed by the French DPA (CNIL). In 2010, she joined the CNIL as a legal IT expert. In 2013, she participated to Article 29 Working Party Technology Subgroup work on cloud computing and mobile devices regulation and was nominated by EU Commission in personal capacity as a data protection expert. She released in 2016, 72 open-source Youtube videos on the GDPR (“EU Privacy for all”).



NICOLAUS GOLLWITZER
Telefónica Next, Germany



Dr. Nicolaus Gollwitzer has been leading Telefónica Germany NEXT GmbH as CEO since the beginning of 2017. Before joining Telefónica NEXT, Dr. Gollwitzer was CEO of Vodafone Automotive in Italy. During his career, he obtained various leading positions in sales, professional services and product management in different US-American software companies. Dr. Gollwitzer holds a Ph.D. in physics and lives in Berlin.

JIRI PILAR
DG Connect, European Commission, Luxembourg

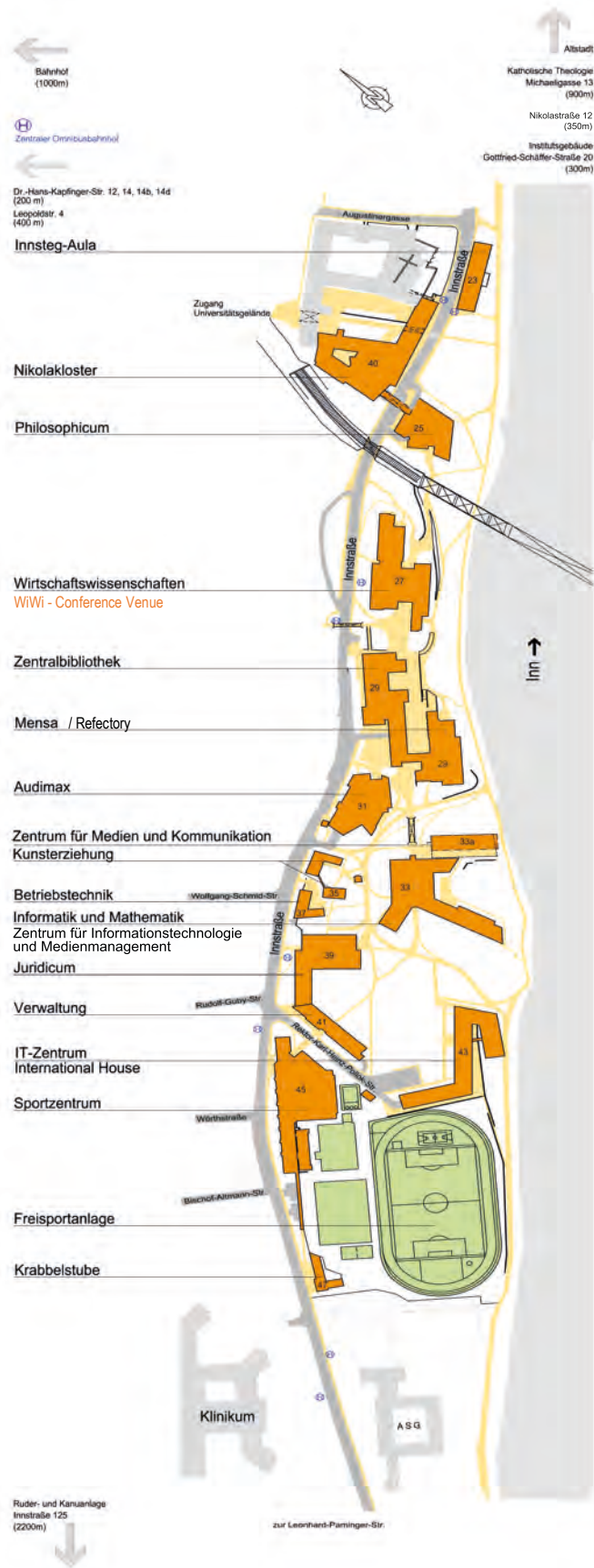


Czech-qualified lawyer (Member of the Czech Bar) and official of the European Commission. Following the legal and journalism studies in the Czech Republic (Prague), Ireland (Limerick) and France (Paris), Jiri worked for several years at the Prague and Paris branches of the law firm Linklaters, focusing on commercial law transactions in the telecoms sector and beyond. After joining the European Commission, Jiri worked for five years in the unit that develops the policy and oversees the implementation of the EU's regulatory framework for electronic communications, being in frequent contact with national regulators and market players. For the last several years, he has been working in the unit that supports the data economy in the Digital Single Market. He contributes to the current policy initiatives addressing new and emerging issues (such as non-personal data access and transfer) and advancing the EU open data policy by ensuring the correct implementation of the Public Sector Information (PSI) Directive and supporting the use and re-use of public data for example through the Pan-European Data Portal. Another recent focus area is the potential of Industrial Data Platforms in the process of digitisation of the European industry.

MEMBERS OF THE PROGRAMME COMMITTEE


Agiakloglou	Christos	University of Pireaus
Bohlin	Erik	Chalmers University
Briglauer	Wolfgang	ZEW
Cherry	Barbara	Indiana University
Curwen	Peter	Northumbria University
Feijoo	Claudio	Universidad Politecnica de Madrid
Fennell	Shailaja	University of Cambridge
Garcia-Murillo	Martha	Syracuse University
Gijon	Covadonga	Universidad Carlos III de Madrid
Götz	Georg	Justus-Liebig-University Giessen
Gomez Barroso	Jose Luis	UNED
Helberger	Natali	University of Amsterdam
Henten	Anders	CMI
Hoernig	Steffen	Nova School of Business and Economics
Howell	Bronwyn	Victoria University of Wellington
Knieps	Günter	University of Freiburg
Krämer	Jan	University of Passau
Kretschmer	Tobias	Ludwig-Maxillians University
Kubasik	Jerzy	Poznan University of Technology
Loebbecke	Claudia	University of Cologne
Longstaff	Pat	Syracuse University
Madden	Gary	Curtin University
Marcus	Scott	Bruguel
Mitomo	Hitoshi	Waseda University
Navio	Julio	UNED
Neumann	Karl-Heinz	WIK
Nucciarelli	Alberto	University of Trento
Perez-Amaral	Teodosio	Universidad Complutense de Madrid
Preissl	Brigitte	ZBW
Pupillo	Lorenzo	CEPS
Renda	Andrea	CEPS
Rendon	Juan	Deutsche Telekom
Sadowski	Bert	TU Eindhoven
Sallai	Gyula	BME
Schmidt	Stephen	TELUS
Schnurr	Daniel	University of Passau
Tsuji	Masatsugu	Kobe International University
Whalley	Jason	Northumbria University
Wiewiorra	Lukas	Goethe-University Frankfurt
Yan	Xu	HK University of Science & Technology
de Reuver	Mark	Technical University of Delft
van Eijk	Nico	Institute for Information Law
van Gorp	Annemijn	The Hague University of Applied Science

CAMPUS PLAN




SCIENTIFIC PROGRAMME: OVERVIEW AND CONTRIBUTED SESSIONS

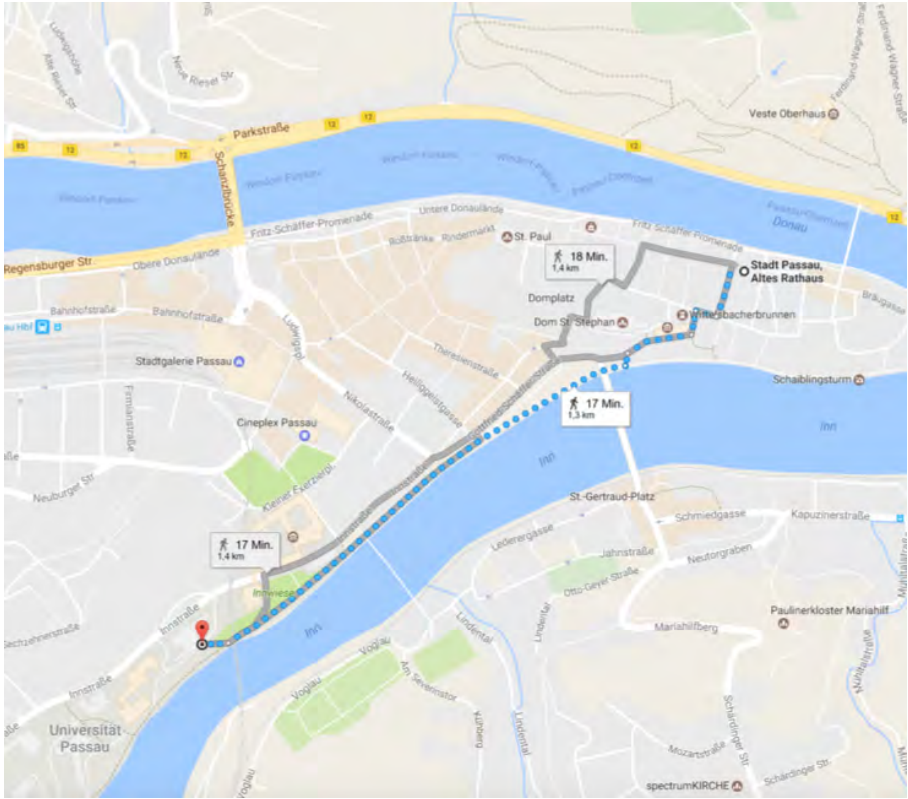
Sunday, 30th July
Welcome reception

19.00 – 22.00	Welcome reception and registration	Beer garden Loewen-Brauhaus, Rathausplatz 2 94932 Passau www.loewen-brauhaus.de	
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Monday, 31st July
Opening and welcome address, keynote speech, 09.00-12.00

09.30 – 10.00	<p>Opening and welcome address</p> <ul style="list-style-type: none"> • Stephen Schmidt - Chairman, International Telecommunications Society • Jürgen Dupper – Lord Mayor of Passau • Prof. Dr. Carola Jungwirth – President of the University of Passau 	<p>Großer Rathaussaal Altes Rathaus Rathausplatz 94032 Passau</p>
10.00 – 11.30	<p>Keynote address</p> <p><i>Regulatory inertia versus ICT dynamics</i></p> <p>Prof. Dr. Ingo Vogelsang Boston University, USA</p>	
11.30 – 12.00	<p>Reception / Coffee break</p>	

Transition to the University and lunch

12.00 – 12.30	Bus / walk	
12.30 – 13.30	Lunch	Mensa/Refectory, Innstr. 29

Monday, 31st July.
Parallel Sessions 1: 13.30 – 15.00
School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)

Mobile equipment	Digital exclusion	Broadband 1	Privacy & data	Internet of Things	Using online technologies
Room 026	Room 027	Room 028	Room 029	Room 033	Room 034
<p>Shinohara – How did the Apple’s supply strategy of iPhone affect the competition among mobile carriers?</p> <p>Lee & Kwon – An empirical study on firms’ product entry strategy in the US smartphone market</p> <p>Wernick & Gries – Economic implications of embedded SIM for the mobile telecommunications consumer segment</p>	<p>Kapatamoyo – Little bytes: zero rating, digital divide and competition in Africa</p> <p>Valarezo-Unda, López, Pérez-Amaral & Gijón – Models of individual cross border online purchases: The case of Spain</p>	<p>Briglauer, Cambini & Grajek – Speeding up the Internet: Regulation and investment in European fibre optic infrastructure</p> <p>Neumann & Godlovitch - Co-investment and incentive-based regulation in electronic communications</p> <p>Ruhle, Oskar & Egg - OAN of municipal fibre networks - Case study Lienz in Eastern Tyrol</p>	<p>de Streel - For a smart protection of the digital consumer</p> <p>Niebel, Rasel & Viète - BIG Data - BIG Gains? Understanding the link between big data analytics and firm performance</p> <p>Sobolewski & Palinski – Welfare assessment of new data protection regulation (GDPR) – Stated preference approach</p>	<p>Knieps - Internet of Things and the economics of networked vehicles</p> <p>Sadowski, Nomaler & Whalley - Technological diversification into "Blue Oceans"? A patent-based analysis of mobile health and smart energy patent profiles of ICT firms</p>	<p>Wireko & Azumah – Who ‘owns’ the cloud? An empirical study of cloud governance in cloud implementation in Ghana</p> <p>Unver - How to embrace ‘clouds’ under the EU landscape: Building up a legal framework for ‘interoperability’ conundrum</p> <p>Cheng & Mitomo - Can digital media enhance collective resilience behaviours in disasters? A case study of the 2011 Great East Japan Earthquake</p>
Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.					

Monday, 31st July.
 Parallel Sessions 2: 15.30 – 17.00
 School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)

Mobiles services 1	OTT	Mergers & Acquisitions	PANEL – The Sky is the Limit: Alternative Approaches to Last Mile Broadband
Room 026	Room 027	Room 028	Lecture Hall 7 (WiWi)
<p>Nicolle, Grzybowski & Zulehner - Impact of competition and regulation on prices of mobile services: Evidence from France</p> <p>Arnold, Schneider & Kroon - An app for every step – A psychological perspective on interoperability of mobile messenger apps</p>	<p>Hildebrandt, Arnold, Tas & Kroon - More than words – A global analysis of the socio-economic impact of OTT communications services</p> <p>Wellmann - OTT-messengers and mobile telecommunication: A joint market? - An empirical approach</p> <p>Jirakasem & Mitomo – Regional telecommunications policy and ASEAN's responses to convergence and Over-the-top (OTT) services</p>	<p>Castells, Bahia, Pedros & Abate - Mobile mergers and quality of service: An ex-post evaluation of the 4-to-3 merger in Austria</p> <p>Navio-Marco, Serrano-Calle & Solorzano-Garcia - Analysis of glamorous acquisitions in the telecommunications sector: Overvaluation or successes?</p> <p>Vialle & Giron - A preliminary analysis of mergers and acquisitions by Microsoft from 1992 to 2016: a resource and competence perspective</p>	<p>Chairman: Scott Marcus</p> <p>Confirmed speakers:</p> <ul style="list-style-type: none"> • Professor David Reed, University of Colorado at Boulder, USA • Dr. Zoraida Frias, Universidad Politécnica de Madrid, Spain • Anthony Baker, SES Networks, UK
<p>Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.</p>			

Monday, 31st July.
Panel session: “The future of IP Interconnection”

17.30 – 19.00

School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)
Lecture Hall 7

Chairman - Scott Marcus	Location – WiWi, Lecture Hall 7
Panelists: <ul style="list-style-type: none">• Dr. Falk von Bornstädt, Deutsche Telekom• Prof. William Lehr, Massachusetts Institute of Technology• Dr. Cara Schwarz-Schilling, Bundesnetzagentur• Harald Summa, CEO eco / DE-CIX	

Tuesday, 1st August.
Parallel Sessions 3: 09.00 – 10.30
School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)

Mobile services 2	Business models	Consumers issues	PANEL – Zero-Rating and Regulation
Room 026	Room 027	Room 028	Lecture Hall 7 (WiWi)
<p>Zhang, Yin & Yuan - When, where and why we use apps a study on use contexts of mobile app</p> <p>Kongaut & Lis - Supply and demand sides of mobile payment: A comparative case study of successful mobile payment adoption in developed and developing countries</p>	<p>Koeder & Tanaka - Game of chance elements in free-to-play mobile games. A freemium business model monetization tool in need of self-regulation?</p> <p>Sahut & Hikkerova - FinTech and new business models: the case of insurance</p> <p>Stork & Esselaar - Freemium Internet - Next generation business model to connect next billion</p>	<p>Maleki, Ringel & Skiera – Proleptic market analysis: Market analysis based on consumer attention</p> <p>Ostermann & Wiewiorra - Understanding IT consumerization decisions - Evidence from a choice experiment</p> <p>Lyons & Lunn - Consumer switching intentions for telecoms services: evidence from Ireland</p>	<p>Chairs – Bronwyn Howell, Roslyn Layton</p> <p>Confirmed speakers:</p> <ul style="list-style-type: none"> • Professor Dr. Robert Frieden, Penn State University • Thomas Grob, Senior expert regulatory strategy, Deutsche Telekom AG • Professor Dr. Jan Krämer, University of Passau, Germany • Professor Dr. William Lehr, Computer Science & Artificial Intelligence Laboratory, MIT
<p>Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.</p>			

Tuesday, 1st August.

Panel session: “Personal information markets: New business models for network operators?”

11.00 – 12.30

School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)
Lecture Hall 7

Chairman – Jan Krämer	Location – WiWi, Lecture Hall 7
<p>Panellists:</p> <ul style="list-style-type: none">• Dr. Marie Charlotte Roques Bonnet, Director EMEA privacy policy at Microsoft• Dr. Nicolaus Gollwitzer, CEO Telefónica Next• Jiri Pilar, DG Connect, G.1/ European Commission	

Tuesday, 1st August.
 Parallel Sessions 4: 13.30 – 15.00
 School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)

Looking forward and looking back	Online markets 1	Broadband 2	Regulation	Privacy and data uses	Universal service and access
Room 026	Room 027	Room 028	Room 029	Room 033	Room 034
<p>Kwon & Kwon - Telecommunications Policy: An evaluation of 40 years' research history</p> <p>Gruber - Innovation, skills and investment: A digital industrial policy for Europe</p> <p>Lehr & Sicker - Communications Act 2021</p>	<p>Batikas, Claussen & Peukert - Follow the money: Piracy and online advertising</p> <p>Ueda - A conjoint analysis on e-book market in Japan</p> <p>Kraemer, Schnurr & Wohlfarth - Winners, losers, and Facebook: The role of social logins in the online advertising ecosystem</p>	<p>Beckert - Success factors for FTTH deployment in Europe: Learning from the leaders</p> <p>Sudtasan & Mitomo - Willingness-to-pay for FTTH for securing and stable use of OTT media streaming services</p> <p>Briglauer, Camarda & Vogelsang - Path dependencies in regulation and their determinants: Recent evidence from regulated EU broadband markets</p>	<p>Marcus, Petropoulos & Bocarova- Incentives for investment in fast broadband: How much can be expected from the proposed European code?</p> <p>Mizuno – The likelihood of co-investment in telecommunications: The effects of access regulation and firm heterogeneity</p> <p>Howell, Tsuji & Shinohara - Policy alternatives for better and wiser use of the Japanese NGN: Competition, functional separation, or what?</p>	<p>Koguchi, Jitsuzumi, Kasuga, Nakamura & Shishikura - Relationship between the amount of compensation for the leak of personal data and personal attributes</p> <p>Wohlfarth - Data portability on the Internet: An economic analysis</p> <p>Gómez-Barroso, Palacios & Feijóo - Is there a trade-off between anonymity and personalised services?</p>	<p>Rajabiun - The rise of broadband as an essential utility and emergent concepts in universal access in advanced economies: Perspectives from Canada</p> <p>Batura - Universal service and broadband deployment: What relation under the proposed European Electronic Communications Code?</p> <p>Stocker & Whalley - Who contributes to consultations, and what do they say? An analysis of the USO consultation in the United Kingdom</p>
<p>Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.</p>					

Tuesday, 1st August.
Parallel Sessions 5: 15.30 – 17.00

School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)

Mobile - spectrum	Online markets 2	Government involvement in telecom markets 1	Smart and city-wide infrastructures	Exploring the structure of markets, broadband
Room 026	Room 027	Room 028	Room 029	Room 033
<p>El-Moghazi, Whalley & Irvine - The future of the international radio regulations: transformation towards sharing?</p> <p>Insua, Frias & Perez - Application of multiple regression analysis to the spectrum prices of IMT bands</p> <p>Schmidt - Radio interference: Jurisdictional competition in Canadian wireless regulation</p>	<p>Caccinelli & Toledano - Assessing anticompetitive practices in two-sided markets: A comparative analysis of four antitrust proceedings against Booking.com</p> <p>Nakamura - Evaluating customer reviews in matching services on the Internet</p> <p>Choi, Nam & Kim - The impacts of mobile platform openness on application developers' intention to continuously use the platform</p>	<p>Lelie, Sadowski, Brennenraedts & Smits - Government involvement and learning in business model experimentation: NGA deployment in rural areas in the Netherlands</p> <p>Purnama & Mitomo – Local broadband initiative and shared duct policy in Indonesia</p> <p>Gerli, Matteucci & Whalley - Infrastructure provision on the margins: A critical assessment of Broadband Delivery UK</p>	<p>Kaiser, Verbrugge & Colle - An overview of different business models for public Wi-Fi and their implications on indirect revenue</p> <p>Oomens & Sadowski - Public and private value creation in smart city initiatives: The case of the Netherlands</p> <p>Anand & Navio-Marco - Using competition and collaboration for sustainable smart cities</p>	<p>Papai, Nagy & Papp - Number or type? – Lessons from a benchmarking study of the large-screen mobile broadband prices in the European Union</p> <p>Cherry - Instability of broadband policies in the U.S. compared to Canada</p>
Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.				

Tuesday, 1st August.
Conference dinner: 18.30 – 23.00

Gala boat "Regina Danubia"	Dock no. 7, Rathausplatz, in front of the old town hall; boat departs at 7 p.m. sharp.
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Wednesday, 2nd August.
Parallel Sessions 6: 09.00 – 10.30

School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)



Mobile	Online markets 3	Ecosystems in practice	Regulation	Encouraging broadband 2	Online services
Room 026	Room 027	Room 028	Room 029	Room 033	Room 034
<p>Henten, Tadayoni & Sørensen - Mobile communications – on standards, classifications and generations</p> <p>Dasgupta & Williams - Network Sharing: Cooperating, Co-opting and Competing</p> <p>Curwen - High-speed data provision via mobile networks in Latin America and the Caribbean</p>	<p>Schweitzer & Seifert - Performance of the package-clock and the simultaneous ascending auction for items with uncertain and complementary values: An experimental investigation</p> <p>Elaluf-Calderwood, Liebenau & Rossi - Changing markets in operating systems; a socio-economic analysis</p> <p>Kraemer & Zierke – Sponsored ranking in application stores – Impact on application quality and welfare</p>	<p>Arenal, Armuna & Ramos - From App Economy to Web Entrepreneurship: Analyzing the socio-economic impact of mobile applications and web-based entrepreneurs in Europe under the entrepreneurial ecosystem framework</p> <p>Leonetti, Sadowski & Nucciarelli - Value creation in newly established ecosystems: The case of the NOI Tech Park in Italy</p> <p>Binsfeld, Whalley & Pugalis - Collaborating in ICT ecosystems: the case of Luxembourg</p>	<p>Falck, Heimisch, Koenen & Mazat - Regulating an industry undergoing technological change - The case of telecom in Austria</p> <p>Neumann & Plückebaum - Mobile network sharing</p> <p>Schmitt & Neu - The beta in the WACC for regulated fixed and mobile telecommunications services: its role and robust estimation</p>	<p>Gerli, van der Wee, Verbrugge & Whalley - The involvement of utilities in the development of broadband infrastructure: much ado about nothing?</p> <p>Lange - Tariff diversity and competition policy – Drivers for broadband adoption in the European Union</p> <p>Balmer - Boosting co-innovation and NGA investment in rural areas by setting up cooperative local (digital) platforms - The Swiss cases of MiaEngiadina and NüGlarus</p>	<p>Badran - Electronic health records prospects in Egypt: A demand-side perspective</p> <p>Terada & Watanabe - Online simultaneous program distribution trials by broadcast TV stations in Japan</p> <p>Garín-Muñoz, López & Pérez-Amaral – Models for individual's adoption of eCommerce, eBanking and eGovernment in Spain</p>
<p>Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.</p>					

Wednesday, 2nd August.
Parallel Sessions 7: 11.00 – 12.30

School of Business, Economics and Information Systems, Innstrasse 27, Passau (WiWi)

Mobile – 5G Room 026	The Internet and its impact Room 028	Consumer issues Room 029	Broadband impacts 2 Room 033	Interconnection & innovation Room 034
<p>Marcus & Molnar - Network sharing and 5G in Europe: the potential benefits of using SDN and/or NFV</p> <p>Kim, Nam, Lee & Kim - A public R&D resource allocation model for 5G mobile industry in Korea</p> <p>Rendon Schneir, Konstantinou, Bradford, Zimmermann, Droste, Canto & Ajibulu - Cost analysis of a 5G Network with multi-tenancy options</p>	<p>Lindeberg - Internet governance: The visible and the invisible hand</p> <p>Sedlmeir, Hopf, Neuburger & Picot - Convergent digital infrastructures and the role of (net-) neutrality</p> <p>Lindeberg - How stable is the internet to malign or economic interference?</p>	<p>Schlereth, Skiera & Sebastian - Uncovering hidden profits of minimum and billing increments</p> <p>Kraemer & Wiewiorra - Strategic whitelisting by an ad-blocking technology provider: Market outcomes and welfare implications</p> <p>Howell & Potgieter - Triple-play (un)bundled pricing – cui bono?</p>	<p>Hasbi - Impact of superfast broadband on local economic growth: Empirical evidence</p> <p>Sigloch, Giovannetti & Fennell - Upstream internet market structures and mobile broadband affordability, a competition regulation trade-off in Tamil Nadu</p> <p>Rohman & Bohlin - R&D and competition at the third layer of the ICT ecosystem</p>	<p>Baake & Sudaric - Interconnection and prioritization</p> <p>Tsuji, Idota, Bunno & Shinohara - ICT use, connectivity, and innovation capability in Japanese innovative SMEs</p> <p>Mitomo - Data network effects: Implications for data business</p>
<p>Note: The last speaker in each parallel session is the designated session chair and responsible for keeping the session on time.</p>				

Wednesday, 2nd August.
Social events, 15.00 – 18.00

15.00 – 17.00	17.00 – 18.00
<p>Guided city tour (about 1,5 h)</p> <p>The tour starts at Nikolakloster, Innstr. 40 University of Passau</p> <p>The tour ends in front of St Stephen's Cathedral</p>	<p>Guided cathedral and cathedral organ tour</p> <p>The tour starts in front of St Stephen's Cathedral</p>
	

SOCIAL PROGRAMME

Welcome Reception, July 30, 2017, 7:00 p.m.

With the welcome reception, the ITS 2017 at the University of Passau will officially start at 7:00 p.m., Sunday, 30th of July. It will take place in a typical Bavarian beer garden in front of the old town hall at the Danube bank with a view to the fortress Oberhaus. Special beer, Rathaus Zwickl, will be served from a unique beer fountain. The Ratskeller Zwickl (Town hall beer) is a bottom-fermented full beer, unfiltered and naturally cloudy, alcohol 5,5 %, original wort 11,6 %, a marigold colour beer with fine-aromatic beer flavour, full-bodied with balanced bitter hops. The Austrian band "Hopfen und Malz" ("Hops and Malt") will entertain us with oldies, classic rock and Austrian pop music.

Find more information about the Loewen-Brauhaus. Passau here:
<http://www.loewen-brauhaus.de>

Dress code: Come as You Are / Casual

Location: Löwen.Brauhaus.Passau, Rathausplatz 2, 94032 Passau

Conference Gala Dinner, August 1, 2017, 6:30 p.m.

On Tuesday evening, August 1, 2017, the conference dinner of the ITS 2017 takes place on board of the festive gala boat "Regina Danubia" at 6.30 p.m. **Please be there on time. The ship will depart at 7.00 pm sharp.** On this trip you will experience the beauty and cultural variety of the Bavarian / Austrian Danube River Valley. Typical historical Danube villages, monasteries and castles can be seen along the narrow and steep river scenery. A string quartet will enjoy us with classic music during our journey.

Find more information about Regina Danubia here:
<http://www.donauschiffahrt.de/regina-danubia/?lang=en>

Dress code: Cocktail / Semiformal

Place of departure: Dock no. 7, Rathausplatz, in front of the old town hall where the welcome reception took place.

Veste Oberhaus (Fortress Oberhaus), free entry, on your own time

The Veste Oberhaus is the largest museum in Passau. It is the fortress on top of the hill on the left side of the Danube river and was built in 1219. The city of Passau is inviting you to visit it. You can find a voucher for a free entry in the registration envelope. Walking takes about 20 minutes from the Römerplatz, which is next to the Rathaus (Old town hall). Cross the bridge and on the other side of the street, from where a scenic and beautiful path starts uphill. If you do not want to walk, there is also a shuttle bus going from the town hall ("Rathaus") to the Veste Oberhaus every 40 minutes (fee: 1,80€), or you can go up by car.

GUIDED TOURISTIC TOURS, August 2, 2017

Passau –the City of the Three Rivers

If only buildings and places could talk ...

in Passau they would have interesting stories to tell. Passau has always been shaped by historical events. Therefore, the wide range of sights reflects the variety of historical testimony in this town.

History, stories and anecdotes ...

Charming, funny and odd stories and anecdotes on Passau's present and past. Explore the Three Rivers City with qualified local guides.

Experience Passau's history first hand! This guided tour leads through the winding alleys of the romantic Old Town, directly past sights like the cathedral, bishop's residence and town hall.

Guided Tour I (City Tour)

Date: Wednesday, August 2, 2017, 3 p.m.

Venue: University of Passau, Nikolakloster

Duration: ca. 1,5 h

Costs: € 6.00/person

Registration and payment (if outstanding) to be made at the reception desk.

The Guided City Tour will end in time in front of St. Stephen's Cathedral, from where you can immediately start the next tour below.

St. Stephen's Cathedral: Home to the World's Largest Cathedral Organ

St. Stephen's Cathedral is an architectural masterpiece. The choir area and transept are Gothic, while the towers and nave are Baroque. Within the interior, architecture, stucco and paintings come together to create an overall Italian Baroque work of art. The incredible dimensions reflect the cathedral's former importance as the mother church for both the Danube region and Vienna's St. Stephen's Cathedral. With 17,974 organ pipes, 233 stops and 4 carillons the organ is the world's largest cathedral organ. All five parts of the organ can be played from the main key board, one at a time or all together, offering the visitor an unforgettable acoustical delight.

Guided Tour II (St. Stephen's Cathedral and Organ Tour)

Date: Wednesday, August 2, 2017, 5 p.m.

Venue: in front of St. Stephen's Cathedral, Passau

Duration: ca. 1 h


Costs: € 7.50/person

Registration and payment (if outstanding) to be made at the reception desk.

PRACTICAL LOCAL INFORMATION

- **ATMs & Credit Cards:** ATMs are widely available throughout Passau and most are open 24 hours a day. Souvenir and clothing stores accept all major credit cards, however grocery stores, cafes and some restaurants will only accept cash.
- **Bus:** The main bus station is called “ZOB”. The CityBus goes from the train station (“Hauptbahnhof”) via ZOB and town hall (“Rathaus”) to Römerplatz and back. It leaves from 6.45 a.m. to 6.30 p.m. every 15 minutes and from 6.30 p.m. to 8 p.m. every 30 minutes. University: Walking from the ZOB or via the pathway along the river Inn is the best way to get there. Bus: Line 8 or 9 from the ZOB in direction Kohlbruck/Erlebnisbad (2 stops until “Universität”).
- **Conversions: Distance & Temperature:** Distances in Germany are given in kilometres; 1 mile = 1.62 kilometres. Temperature is given in degrees Celsius; Celsius to Fahrenheit: multiply Celsius by 1.8 and add 32 to convert to Fahrenheit.
- **Currency:** The currency used in Passau is Euro (€).
- **Electricity:** The standard electrical voltage in Germany is 230 volts AC, 50Hz (hotel bathrooms may also have outlets for 100 volts). The electrical outlets in Germany take two-pronged, round-pin plugs. We recommend that you purchase an adaptor for your electrical equipment prior to your arrival.
- **Emergency:** In emergency situations, you can contact the local **police by calling 110**, and the **fire department or ambulance by calling 112**
- **Health and Immunizations:** Vaccination certificates are usually not needed when travelling to Germany, but please check with your local embassy as requirements may change.
- **Language:** German is the official language in Germany but English is widely spoken. The official conference language is English and no translation/interpretation services will be offered.
- **Parking in Passau:** Passau is a very old city with many little streets. Therefore, we recommend you leaving the car at your hotel or at one of the carparks. Almost everything in the city is in walking distance (or you could also take a bus).
- **Smoking:** Smoking is generally forbidden inside buildings (e.g. town hall, university, train station, hotel), including restaurants, bars and clubs. It is allowed only outside (not in the train station, however) or in designated smoking areas.
- **Taxi:** You can order a taxi in Passau by calling **+49-851-57373**
- **Telephones International dialing codes:** Germany: +(49); Austria: +(43)
- **Timezone:** UTC+01:00
- **Tipping:** Service and VAT are included in the menu price in restaurants, bars, etc. all over Germany. Still, it is typical to “round up” the amount to some more-or-less round figure. A rule of thumb is to add 5-10%, generally ending with a full Euro amount. It is not typical to leave your money on the table after you receive the check. You have to tell the amount including tip you want to pay before you pay (via cash or credit card)
- **Water:** Tap water is safe to drink in Passau.

BAVARIAN PHRASEBOOK

a Maß	Bavarian for: One litre of beer in traditional mug (make sure to include the Bavarian article a, pronounced like "ah" in English)	
Bursch(en)	Boy(s), young man (men)	
Dirndl	Girl, young woman, also: traditional festive dress	
fesch	Good looking, attractive	
Fix, Kruzifix or Zefix	Strong universal curse with numerous variations based	
Gaudi	Fun, joke, experience	
Geh weida	Doubting, critical: "You can't be serious", "oh, stop", "leave me alone"	
G'stand'nes Mannsbild	A true man with a dominant presence, also: corpulent (the opposite of a Haring)	
Grüß Gott	Standard Bavarian salutation	
Haring	Very thin man, the opposite of a "G'stand'nes Mannsbild"	
Habe d'Ehre	Bavarian for "It's an honour, traditional, very respectful salutation	
Ja mei	Bavarian statement of tolerance with numerous nuances: "It doesn't matter, "It doesn't matter to me, 1 can't change it", experts are able to use it universally	
Lebkuchenherz	Gingerbread heart	
Ois isi	Taken from English ("easy"), equivalent to: "No problem, we can do this" or: "Everything is running according to plan"	
Prost I Prosit	Bavarian equivalent to "cheers"	
Sauber sog I	Exclamation of recognition and astonishment for an extraordinary achievement. Superlative: da legst Di nieder	
Schau ma moi	Bavarian laissez-faire, the equivalent to "time will tell	
Schmankerl	Traditional Bavarian culinary delights	
Schmarrn	Dismissive commentary, "that's nonsense"	
Servus	Jolly, very personal welcome salutation or parting farewell	
Wer ko,der ko	Bavarian for "when you've got it, you've got it", said by self-confident persons with regard to their own abilities	

Source/credits: EARIE 2015 conference organisation team

BEST PRACTICES FOR SPEAKERS AND SESSION CHAIRS

These recommendations are designed to help you prepare for the ITS conference. If you have any questions, please contact the conference organisers. ITS is an energetic dialogue between presenters and attendees. These recommendations are designed to facilitate that interaction.

Papers are presented in 90 minute-long sessions, running in up to six concurrent tracks. Each session usually has three scheduled papers.

The lecture hall 7 has portable microphones. Please use the microphones and ensure that they remain in the room after your session.

A technician will check each room at the beginning of each session to make sure that there are no technical difficulties. If you have a problem during the middle of your session, please send someone to the registration desk for assistance.

Session Chairs

Your primary responsibilities are to keep paper presentations on schedule, and facilitate Q&A.

Please start on time. The schedule is tight, and the only way to assure presenters have their full time allotment is to start on time.

Please keep introductions to an absolute minimum as most will subsequently introduce themselves.

It is important to present the papers in the order listed in the conference schedule. Some attendees may wish to attend the first presentation in one room and a subsequent presentation in another. They will assume that the papers will be presented in the advertised order and following the stated time constraints, and will plan accordingly. Presenting the papers in order enables an attendee to get the most out of the conference.

If a scheduled paper drops out, please start the other papers at their scheduled times; do not move presentations up to fill the gap.

Please keep the presenters within time limits. Each presentation has 28 minutes total: 20 minutes for presentation and 8 minutes for questions and answers. 2 minutes are for switching presenters and allowing the audience to change rooms. Dialogue with the audience is at the heart of ITS, and presenters should not be permitted to go over their 20 minutes with the justification that they are using their own Q&A time: that eight minutes belongs to the audience.

You may wish to sit in a location where you can easily indicate time remaining to the presenter. The programme booklet includes a 5 and 2 minutes warning sign as well as a STOP sign that you may find useful.

Please take questions concerning a paper directly after that paper presentation. The audience tends to shift during a session and those who wish to ask questions

related to the first paper may not be willing to stay until the end. In addition, if all questions are reserved until the end, the majority of the questions typically relate only to the last paper.

While you are the time keeper, you are also responsible for stimulating discussion if the audience does not immediately have any questions after a paper. We recommend that you read the papers in your session beforehand, and prepare questions in case they are needed. However, you are a facilitator and not a discussant, and should give the audience priority in asking questions.

Speakers

Each classroom is equipped with a computer and a projector. Please arrive at your room early to download your presentation and avoid using presentation time to load your presentation.

You have 20 minutes for your presentation; there will be 8 minutes after your presentation for questions from the audience and discussion. This is very short. You will generally have difficulty presenting your full paper during this time. Instead, present the most exciting or intriguing aspect of work. Present your thesis or a selection of your key findings. You will benefit most from ITS, as will the audience, when there is time for discussion.

Remember that ITS is a cross-disciplinary conference. Please avoid jargon. If you do drop into jargon and acronyms, someone from the audience may stop you and ask you to define your terms. Alternatively, and worse, the audience may not stop you, but may be unable to follow your presentation and consequently lose interest.

On the other hand, while members of the audience may not come from your discipline, the average education and training level of attendees is very high. You need not dumb down your presentation.

Avoid lengthy introductions. Move swiftly into your presentation.

Avoid spending significant time discussing methodology. Instead, focus on your findings.

Papers will be presented in the order that they are listed in the conference program.

*Thank you for your consideration of these guidelines.
We wish you a successful conference!*

5
MINUTES
LEFT

2 MINUTES WARNING

2
MINUTES
LEFT

POSTS

YOUR NOTES



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