



Trans-Atlantic Symposium on ICT Technology and Policy

5G Networks, Big Data, Internet of Things and Cyber-Physical Systems for a Smart Society

Minneapolis, Minnesota, U.S.A. • June 19-20, 2017 • www.picasso-project.eu/symposium

Goals of the Symposium

The "Trans-Atlantic Symposium on ICT Technology and Policy - 5G Networks, Big Data, Internet of Things and Cyber-Physical Systems for a Smart Society", organised by the European Commission-funded PICASSO project, hosted by the Technological Leadership Institute, University of Minnesota, and co-sponsored by additional EU and US organisations, will cover the spectrum **from research assessments via commercialisation opportunities to policy issues in information and communication technologies (ICT) such as 5G networks, Big Data, and the Internet of Things (IoT)/ cyber-physical systems (CPS).**

In addition to PICASSO, session organisers include BILAT USA 4.0, Intelligent Manufacturing Systems, and Clean Energy Economy Minnesota.

Comprising a combination of **plenary and parallel sessions**, the symposium will set **focus on impacts for a smart society and related industry sectors.**

The event will also present "opportunity reports", including **prioritisation of R&D and application needs, and recommended areas for EU-US collaboration**, that have recently been prepared by the PICASSO Expert Groups in IoT/CPS, 5G networks, Big Data and Policy.

Why attend?

★ Learn the latest about:

- Technology developments and research priorities in key ICT areas
- Customer needs in smart-society sectors
- Possibilities for harmonised approaches to ICT policy issues
- New international collaboration and program opportunities

★ Meet high-level technical and policy experts, leaders from industry and academia, and policy makers from the EU and the US

★ Showcase your achievements, find new partners, enhance your network!

How to attend

Online registration is mandatory and can be completed [here](#) or by visiting the [symposium website](#). Seats are limited and early registration is advised.

Registration fee: USD 150.00 until May 19th, USD 200.00 thereafter. The registration fee covers event participation, lunches and breaks on both days, and the networking reception on June 19th.



[SEE AGENDA](#)



Venue: The symposium will be held at the McNamara Alumni Center, University of Minnesota, 200 Oak Street S.E., Minneapolis. The program as well as travel information and hotel recommendations are available at www.picasso-project.eu/symposium.

Organisers & Main Sponsors:



PICASSO Project

"ICT Policy, Research and Innovation for a Smart Society: towards new avenues in EU-US ICT collaboration"



European Commission



National Science Foundation

Sponsors & Partners:



AIOTI



BILAT USA 4.0



clean energy economy mn



COLLEGE OF Science & Engineering UNIVERSITY OF MINNESOTA



IEEE



CSS



IEEE 5G



IMS

Host:



TECHNOLOGICAL LEADERSHIP INSTITUTE
University of Minnesota

Symposium Chairs:

Tariq Samad, Technological Leadership Institute, Univ. of Minnesota, USA
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AGENDA - Details and updates are available on www.picasso-project.eu/symposium.

Day 1 • 19th of June 2017

- 08:30-09:20 **Opening Session**
European Commission, National Science Foundation, PICASSO
- 09:20-09:55 **The Intersection of IoT and CPS as a Force for Progress**
Chris Greer, National Institute of Standards and Technology, USA
- 09:55-10:30 **5 Great Questions about 5G**
Henning Schulzrinne, Columbia University and Federal Communications Commission, USA
- 10:30-10:55 **Break**
- 10:55-12:10 **Parallel Sessions on Emerging ICT Areas**
IoT/CPS: Convergence of IoT and CPS for Smart and Dependable Socio-technical Systems
Chair: **Sebastian Engell**, TU Dortmund, Germany
 - **John Baras**, University of Maryland, USA
 - **Rolf Findeisen**, Otto-von-Guericke University, Germany
 - **Ovidiu Vermesan**, SINTEF Digital, Norway and European Alliance for Internet of Things Innovation (AIOTI)**5G Networks: 5G Small Cell Technologies**
Chair: **Gerhard Fettweis**, TU Dresden, Germany
 - **Georgios Giannakis**, University of Minnesota, USA
 - **Amitava Ghosh**, Nokia Bell Labs, USA
 - **Chengshan Xiao**, Missouri University of Science and Technology, USA (panelist)**Big Data: Research and Innovation Challenges and Opportunities for Transatlantic Collaboration – a US Perspective**
Chair: **Nikos Sarris**, Athens Technology Center, Greece
 - **Melissa Cragin**, Midwest Big Data Hub, USA
 - **Meredith Lee**, West Big Data Innovation Hub, USA
 - **Lea Shanley**, South Big Data Innovation Hub, USA
 - **Wo Chang**, National Institute of Standards and Technology, USA
- 12:10-13:10 **Lunch**
- 13:10-14:25 **Parallel Sessions on Emerging ICT Areas (cont'd)**
IoT/CPS: Research and Innovation Challenges and Opportunities for Transatlantic Collaboration
Chair: **Tariq Samad**, University of Minnesota, USA
- 14:25-14:50 **Break**
- 14:50-15:35 **EU and US Priorities and Opportunities in Big Data**
Chaitan Baru, National Science Foundation, USA
Andreas Metzger, Universität Duisburg-Essen, Germany and Big Data Value Association
- 15:35-16:50 **The Road to Safer, Cleaner and More Efficient Transportation for Future Smart Cities**
Haydn Thompson, THHINK Group, United Kingdom
Panel: Good Practices in Smart City Transportation Strategies – Their ICT Needs
Chair: **Mark Spinoglio**, SPI, USA
 - **Frank Van den Bulcke**, Mobility Company – Ghent, Belgium
 - **Jaime Quesado**, Portuguese Government Agency for Shared Services, Portugal
 - **US Speaker** – To be named
- 16:50-17:20 **Cybersecurity for ICT and Smart Society**
Massoud Amin, University of Minnesota, USA
- 17:30-19:00 **Networking Reception**
- **Hubertus Tummescheit**, Modelon, Sweden
 • **Christian Sonntag**, TU Dortmund, Germany
 • **US Speaker** – To be named
- 5G Networks: 5G Ultra-large Cell Technologies**
Chair: **Gerhard Fettweis**, TU Dresden, Germany
 - **Olav Queseth**, Ericsson, Sweden
 - **Leif Johansson**, National Instruments, Sweden
 - **Matti Latva-aho**, University of Oulu, Finland
 - **Berge Ayvazian**, Wireless 20/20, USA
- Big Data: Research and Innovation Challenges and Opportunities for Transatlantic Collaboration – a European Perspective**
Chair: **Nikos Sarris**, Athens Technology Center, Greece
 - **Sören Auer**, University of Bonn, Germany
 - **Andreas Metzger**, Universität Duisburg-Essen, Germany and Big Data Value Association
 - **Vasilis Papanikolaou**, Athens Technology Center, Greece

Day 2 • 20th of June 2017

- 08:30-10:00 **Panel: Policy Implications of ICT**
Chair: **Maarten Botterman**, GNKS, The Netherlands
 - **Jonathan Cave**, Warwick University, United Kingdom
 - **Avri Doria**, Technicalities, USA
 - **Dave Farber**, Carnegie Mellon University, USA
 - Representatives of PICASSO Expert Groups
- 10:00-10:30 **Digitizing Europe's Industry: Policy, Research & Innovation Measures**
Christoph Runde, Intelligent Manufacturing Systems - EU
- 10:30-10:55 **Break**
- 10:55-12:10 **Parallel Sessions:**
Panel: Smart Transportation and ICT: Topics for Collaboration
Chair: **Latif Ladid**, University of Luxembourg, Luxembourg
 - **Álvaro de Oliveira**, University of Aalto, Helsinki
 - **Andreas Metzger**, Universität Duisburg-Essen, Germany and Big Data Value Association
 - **Berge Ayvazian**, Wireless 20/20, USA
 - **Chris Greer**, National Institute of Standards and Technology, USA
- 12:10-13:10 **Lunch**
- 13:10-14:10 **Panel: Best Practices for Academic/Industry Collaboration in Smart Cities**
Chair: **Anne Bowser**, Woodrow Wilson International Center for Scholars, USA
 - Speakers/panelists to be named
- 14:10-15:10 **Panel: Perspectives on EU/US Collaboration in ICT**
Chair: **Tariq Samad**, University of Minnesota, USA
- 15:10-15:30 **Break**
- 15:30-16:00 **Conclusions, Path Forward and Adjournment**
- Smart Energy in Minnesota and Beyond**
Chair: **Gregg Mast**, CEEM, USA
 - **Steven Webster**, Cleantech Open Midwest, USA
 - Additional speakers/panelists to be named
- Intelligent Manufacturing Systems: Prospects for International Collaboration**
Chair: **Dan Nagy**, IMS, USA
 - Speakers/panelists to be named

