

IEEE 5G World Forum

Topical/Vertical: Super Infrastructure for Large-Scale Experimental Computer Science (SLICES)

Contact: Serge Fdida, serge.fdida@sorbonne-universite.fr

SESSION 1	SLICES scientific dimension: research challenges ahead of us Chair: Andrea Passarella, <andrea.passarella@iit.cnr.it>
Description	The session will discuss the key scientific challenges, related to the evolution of 5G and 6G, that SLICES aims at supporting. After an initial introduction on what SLICES is, we will first discuss the general framework defining the overall scientific challenges we target. Then we will discuss three concrete hot-topics where SLICES can support existing research efforts of the 5/6G community, in the MEC, communications, and "AI & networks" areas.
Speakers	Dr. Andrea Passarella, IIT-CNR, Italy (Chair) Prof. Serge Fdida, Sorbonne Université, France Prof. Ari Pouttu, University of Oulu, Finland Dr. Bartosz Belter, PSNC, Poland

SESSION 2	Leveraging existing testbed infrastructure know-how leading to SLICES Chair: Brecht Vermeulen, brecht.vermeulen@iminds.be
Description	In this session we will discuss how existing research infrastructure will lead to the SLICES super infrastructure. We will show how experiments and what types of experiments can be run at every level of the software stack over a variety of hardware devices (5G, wireless, IoT, cloud, AI infrastructure) in an easy, reproducible and controlled way.
Speakers	Brecht Vermeulen, imec/UGent, Belgium (Chair) Carmen Guerrero, UC3M, Spain Eduardo Jacob, UPV/EHU, Spain Nikos Makris, UTH, Greece Bartosz Belter, PSNC, Poland Cédric Crettaz, Mandat International, Switzerland

SESSION 3	An Overview of Open-source Software Packages for 5G Networks and Their Use in Experimental Platforms Chair: Raymond Knopp, knopp@eurecom.fr
Description	The purpose of this session is to provide an overview of current software packages for 5G radio-access and core/edge network deployments. In particular, we will highlight their use in experimental networking platforms both in Europe and the USA. The speakers include key players from open-source 5G software communities.
Speakers	Raymond Knopp, Eurecom, France (Chair) Walid Dabbous, INRIA Sophia Antipolis, France Manu Gosain, Northeastern University/PAWR, USA Navid Nikaein, Eurecom, France Thomas Heyn, Fraunhofer IIS, Germany Paul Sutton, Software Radio Systems, Ireland Facebook Connectivity, USA

SESSION 4	SLICES-RI cooperation and interoperability with EOSC and International testbeds/initiatives Chair: Yuri Demchenko, y.demchenko@uva.nl
Description	This session will present overview and invite discussion between the panel of experts and audience on important issues of the connection and interoperability with EOSC as European federated data infrastructure and with the international testbeds such as FABRIC and BRIDES in US. Topics will include data/metadata interoperability, connectivity and joint experimentation. The session also provides information about planned role of SLICES-RI to provide a framework for technical and data interoperability to facilitate European and international cooperation and experimentation.
Speakers	Yuri Demchenko, UvA, The Netherlands (Chair) Ville Tenhunen, EGI, The Netherlands Mark van de Sanden (TBC), SURF, The Netherlands Panayiotis Andreou, UCLAN, Cyprus Cees de Laat, UvA, The Netherlands

Paola Grosso, UvA, The Netherlands

Chrysa Papagiani, UvA, The Netherlands

Inder Monga (TBC), ESNNet, USA