Call for Papers for the Workshop
"Federated Testbeds for NFV/SDN/5G: Experiences and Feedbacks"
(FED5G 2017)

All network and service providers are currently working to adopt the concepts of SDN/NfV and to bring to market new innovative products in this area. In this context a huge number of testbeds have been set up. They have been developed with several different and divergent goals: as a proof of concept; as a means to acquire know-how about the new technologies; as a first prototype to be consolidated into a product; or as an initial in-house platform to be consolidated and transformed into a production means. On the other side, a number of different companies (from SMEs to large corporates) are keen to validate the technology and to exploit its advantages. Many testbed have been create locally and then opened up for interworking with other similar platforms. The interworking of the different pieces of the technologies are of fundamental importance in order to understand the feasibility and sustainability of the approach. Under this perspective, interworking, security and programmability will play a major role for the success of the SDN/NfV technologies.

In order to substantiate the viability of the approach there is the need to integrate these separate infrastructures by interconnecting them and to prove the possibility to federate them on a larger scale testbed. This is an important prerequisite for the test and introduction of 5G and close fields like IoT. This workshop is meant to present first experiences and feedback from both experimenters but also from testbed infrastructure providers/operators. This includes dedicated use cases, architectures, setup and operating procedures, security aspects, programmability issues, etc.

An important goal of this workshop is also to gather the community that is working towards the developments of the technologies and the platform and those people more interested in developing appealing applications on top of the platform. They represent two major development streams that have to work together in order to quicker move towards industrialization of the solutions.

The half-day workshop is organized at the start of the main technical program of the 3rd IEEE NFV-SDN conference which be held this year as part of the Berlin 5G Week at Fraunhofer FOKUS in Berlin, Germany on November 6-8, 2017, see http://nfvsdn2017.ieee-nfvsdn.org/.

Topics of Interest:

FED5G aims at providing an international forum for researchers and practitioners from academia, industry, network operators, and service providers to discuss and address the challenges deriving from bringing the technologies from labs to the field with special attention to the effective integration of SDN and NfV functions into a single programmable context.

The workshop welcomes contributions from several communities interested in the "virtualization at large" approach, the programmability of network resources, the integration of these functions, the introduction of novel security features. The workshop is particularly interested in real use cases and their implementation.

Another topic of great importance is the operation of these platforms. This is a new paradigm, and many operators and other stakeholder need to learn how to fully exploit the capabilities offered. New processes for the management of resources, for the relationship with developers, for the requirements captures from the users have to be identified and consolidated in order to make these platforms a valid instrument for changing the way in which communication services are provided. In addition the workshop aims at considering how these technologies can influence and shape the definition and implementation of the future 5G networks.

Contributions that discuss lessons learnt and best practices, describe practical deployment and implementation experiences, and demonstrate innovative use-cases are especially encouraged for presentation and publication.

We are particularly interested in papers that cover, but are not limited to, the following topics:

- Integration and interworking of different SDN/NfV platforms
- Orchestration
- Integration of SDN/NfV and extension of SDN capabilities
- Evaluation and applicability of the SDN/NfV solution to the 5G context and beyond
- Operations and maintenance of these new platforms
- Programmability of the platforms
- Security issues and solutions
- Definition and implementation of different types of KPIs for controlling the platform
- Virtualization and slicing for 5G
- Development of use cases on top of the platforms
- Use cases and experiences in developing applications using these technologies

Important Dates:

- Workshop Paper Submission: July 31, 2017
- Notification of Acceptance: August 31, 2017
- Camera-ready Submission: September 15, 2017
- Workshop: November 6, 2017

Paper submissions will be handled on-line through the EDAS system.
You can upload your paper here: https://edas.info/N23851

Prospective authors are invited to submit high-quality, original technical papers for presentation at the workshop and publication in the FED5G Proceedings and IEEE Xplore. Papers must be written in English, unpublished and not submitted elsewhere. Full papers must be formatted as the standard IEEE double-column conference template. All final submissions should have a maximum paper length of six (6) printed pages (10-point font), including figures, without incurring additional page charges.

To be published in the Workshop Proceedings and to be eligible for publication in IEEE Xplore, at least one author of an accepted paper is required to register (a full registration) and present the paper at the workshop. The IEEE reserves the right to exclude a paper from distribution after the conference (including its removal from IEEE Explore) if the paper is not presented at the conference. Papers are reviewed on the basis that they do not contain plagiarized material and have not been submitted to any other conference at the same time (double submission). These matters are taken very seriously and the IEEE Communications Society will take action against any author who engages in either practice.

This workshop is organized in close collaboration with the SoftFIRE project: https://www.softfire.eu/

Technical Program Committee (TPC):

- Daniele Camignani, Security Reply, Italy
- Antonio Manzalini, Telecom Italia, Italy
- Marco Miglione, Ericsson, Italy
- Fabio Paglianti, Security Reply, Italy
- Bjoern Riemer, Fraunhofer Fokus, Germany
- Roberto Riggio, FBK Create-Net, Italy
- Fabian Schneider, NEC Laboratories Europe, Germany
- Umberto Stravato, Ericsson, Italy
- Lorenzo Tomasini, Technical University Berlin, Germany
- Serdar Vural, University of Surrey, UK
- Hagen Woesner, BISDN GmbH, Germany

We are looking forward to receiving your paper submissions and hope to see you at the workshop in Berlin, the workshop chairs

Peter Feil
Deutsche Telekom AG, T-Labs
peter.feil@telekom.de

Roberto Minerva
EIT Digital
roberto.minerva@eitdigital.eu