

Call for Contributions

Inform the Chair: with the Title of your Contribution

Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SOFTNETWORKING+2017+Special>

Please select Track Preference as **SDNNFV**

Special track

SDNNFV: Control, Scalability and Performance

Chairs and Coordinators

Prof. Dr. Eugen Borcoci, University "Politehnica" of Bucharest (UPB), Romania
eugen.borcoci@elcom.pub.ro

Paolo Secondo Crosta, Head of Collaborative Research Projects, Italtel S.p.A. - Milan, Italy
paolosecondo.crosta@italtel.com

along with

SOFTNETWORKING 2017, April 23 - 27, 2017 - Venice, Italy

The International Symposium on Advances in Software Defined Networking and Network Functions
Virtualization

<http://www.iaria.org/conferences2017/SOFTNETWORKING.html>

Software Defined Networking (SDN) and Network Function Virtualization (NFV) are recent and complementary technologies, promising a lot of attractive features for the Future Internet, in various areas of IT, networking and services. Industry, academia, research groups, operators, enterprises, etc., are interested and active in investigating, designing, developing and deploying SDN/NFV solutions in different contexts. In parallel, standardization organizations and forums, are making efforts in defining use cases for various domains, requirements, specifications and architectures, design guidelines, etc.

However many still open issues exist in both SDN and NFV areas, related to various aspects starting from concepts and architectures, continuing down to specific implementation and exploitation problems. Last but not least, backward compatibility and interoperability with legacy systems are important. While SDN offers important advantages of programmability capabilities, flexibility, abstraction and independency on equipment vendors, its centralization and control/data planes separation principles raise issues on control and management architectures, scalability, reliability, security, real-time response and others.

NFV technology aims to improve the efficiency and flexibility versus traditional networking (based on dedicated hardware/software) solutions, by using COTS hardware and switches, supporting Virtualized Network Functions (VNFs) realized through software virtualization techniques. Some specific challenges for NFV include: coexistence in cloud-integrated hybrid environments, managing the abstraction, real-time performance, scalability, process realignment so that traditional and virtual infrastructure can be managed simultaneously and so on.

The SDNNFV special track is intended to be focused (but not limited) on control, scalability and performances topics in SDN/NFV systems.

Specific topics could be:

- Hierarchical versus flat control architectures – impact on scalability and performance
- Performance evaluation, optimization and isolation of the Data and Control Planes
- Control in multi-domain and large networks environments
- Operating systems and virtualization aspects in SDN/NFV

- Orchestration and management aspects
- Cloud/fog and SDN/NFV
- Controllers and switches
- Specific SDN/NFV cooperation topics
- SDN/NFV in mobile, cellular environment (4G, 5G) and vehicular (V2X) communications
- Implementation stacks - management and control topics
- Dynamic Services Chaining in NFV
- SDN/NFV in Internet of Things and smart cities environment
- Deployment and exploitation

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: ~~January 15~~ **March 15**
- Notification with comments for camera-ready: ~~February 20~~ **March 22**
- Registration: ~~March 5~~ **April 1**
- Camera ready: ~~March 15~~ **April 1**

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format

- See: <http://www.iaria.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaria.org/registration.html>

Contact

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paolosecondo.crosta@italtel.com
Logistics: steve@iaria.org