



# IEEE NFV-SDN

2023 IEEE Conference on Network Function Virtualization and Software Defined Networks

Dresden, Germany    November 7<sup>th</sup> – 9<sup>th</sup>, 2023    #IEEE #NFV #SDN

## CALL FOR DEMONSTRATIONS

### Important Dates

Paper submission deadline: **Aug. 28<sup>th</sup>, 2023**

Notification of acceptance: **Sep. 28<sup>th</sup>, 2023**

Camera-ready deadline: **Oct. 9<sup>th</sup>, 2023**

NFV-SDN Conference: **Nov. 7<sup>th</sup>-9<sup>th</sup>, 2023**

### Important Links

2023 IEEE NFV-SDN Website

<https://nfvsdn2023.ieee-nfvsdn.org>

Demonstration Submission Site

<https://edas.info/N30801>

### Demonstrations

The 9th IEEE Conference on Network Function Virtualization and Software Defined Networks (IEEE NFV-SDN 2023) conference, which will take place on 7-9 November in Dresden, Germany, invites proposals for demonstrations. Demonstrations complement the conference with practical showcases from the industry on best practices in the field and advance currently underway in research and academia.

Demonstration contributors are expected to provide a demo proposal (up to two pages in IEEE double-column style, 10pt font) incorporating a demo system architecture description and an illustration of the elements that will be demonstrated. A separate “Demo Setup and Requirements” document should also describe the demo setup details and requirements. Demo papers will be peer-reviewed. Accepted papers will be included in the electronic conference/workshop proceedings bundle provided to IEEE NFV-SDN 2023 delegates and will be subsequently made available via IEEE Xplore.

At least one author of an accepted demo must register for the conference at the full rate and present the demo at the IEEE NFV-SDN 2023 conference.

The demo proposals will be reviewed by the IEEE NFV-SDN 2023 program committee and will be approved based on the availability of demo space as well as on the following criteria:

- Extent and significance of the research contribution or insights into best practices
- Potential impact on the audience
- Quality and depth of the proposed implementation

### Topics

Topics of interest and within the scope of IEEE NFV-SDN 2023 include, but are not limited to, the following:

- Advances in network control planes, forwarding abstractions, and data plane programmability
- Dynamic service function chaining/orchestration and traffic steering
- SDN/CNF/NFV in recent and novel architecture paradigms
- Optimizing virtualized infrastructures, including hardware acceleration techniques
- Heterogeneous server platforms and the detailed element-level CPU/GPU/FPGA mapping of VNFs
- SDN/NFV in 6G three-dimensional networking
- Intent and policy-based management
- SDN and information centric networking (ICN)
- Smart service delivery and orchestration
- Application of machine learning and big data analytics to manage virtualized networks
- Machine learning tools for next-generation network optimization
- ML/AI techniques and models for network and service management

- ML/AI-enabled SDN/CNF/NFV deployments
- Resiliency, fault management, and self-healing functions
- Security frameworks
- Network management in SDN
- Advanced tools for automated design, deployment, validation, and network problem diagnosis
- Data/control plane performance, interoperability, and scalability studies
- Congestion control mechanisms in SDN
- Costs of migration of application containers and workloads
- Experience building network virtualization testbeds
- Design guidelines for modularity, scalability, high availability and interoperability (e.g. container/agent-based and micro service implementations)
- Comparative studies on different virtualization technologies
- Usage scenarios such as SD-WAN, IoT, Smart Grid, and Smart Cities, etc.
- Improvements in future communication infrastructure enabled by SDN and NFV including RAN, evolution to 6G, public, private and hybrid clouds
- Operational experience (e.g. lab. and field trial results)

## Submission Guidelines

- Demo papers must be formatted in the standard IEEE double-column conference template.
- Demo papers must not exceed two/three pages with 10pt font size.
- Demo papers need to obey the same general requirements with respect to registration, presentation, double submission and plagiarism as full conference papers.
- Demo submissions should incorporate a demo system architecture illustration and a clear outline of the demo procedure. Links to a short online video clip or screencast showcasing the work are encouraged.
- Demo setup requirements (e.g., number of monitors, internet access, etc.) should be stated in a separate document and uploaded along with the Demo paper.
- Demo papers should be submitted in PDF format via EDAS at: <https://edas.info/N30801>

## Demonstration Co-Chairs

**Augusto Venâncio Neto**, UFRN/DIMAp/PPgSC, BR  
**Helge Parzyjegl**a, University of Rostock, DE

## NFV-SDN General Co-Chairs

**Frank Fitzek**, TU Dresden, DE  
**Larry Horner**, Intel, USA