

## Secure and Integrated Management in the Cloud and 5G Era



## IEEE/IFIP DISSECT 2017 – CALL FOR PAPERS

Emerging open networking technologies and paradigms, such as Software-Defined Networking (SDN), Network Function Virtualization (NFV), and Programmable Networks, are reshaping the way networks are designed, deployed, and managed. The benefits are manifold, including an unprecedented flexibility for network operation and management, and a favorable environment for delivering innovative network applications and services. However, this paradigm shift brings a multitude of security challenges that have to be addressed in order to provide secure, trustworthy, and privacy-preserving data communication and network services. Addressing these challenges may require not only revisiting existing solutions (e.g., for intrusion detection, privacy preserving, and resilience against attacks), but also designing novel security and resilience schemes tailored to the specific design of open networking technologies and infrastructures.

DISSECT 2017 follows the track of its two previous editions, and will put focus on security issues and challenges arising with the emergence of novel networking technologies and paradigms, towards a secure and integrated management in the cloud and 5G era. The workshop will shed light on new challenges and present state-of-the-art research on the various security aspects of next-generation networking technologies and service management frameworks.

DISSECT will offer a venue for bringing together students, researchers, and professionals from academia and industry sharing common interest on security challenges related to the design and management of the distributed networks and infrastructures. DISSECT is intended to (1) discussing these challenges as well as future trends on security management, (2) present and discuss work-in-progress security-related research on cutting-edge technologies, and (3) strengthening collaboration and research ties among peers.

### TOPICS OF INTEREST

The industry and academia research community will be invited to contribute with manuscripts describing novel, work-in-progress research on the design of solutions to relevant security issues on a wide variety of next generation networking technologies. The topics of interest of the workshop include, but are not limited to

Secure and resilient design and deployment of open networking technologies	Security and availability management
Privacy-preserving solutions	Security for Internet of Things
Security models and threats	Intrusion detection, tolerance, and prevention
Security and privacy properties and policies	Network forensics and auditing
Verification and enforcement of security properties	Detection and resilience against large-scale distributed attacks
Trust and identity management	Security of programmable components
NFV-based security functions and services	Security-related business and legal aspects
Security of software-defined infrastructures, protocols and interfaces	Security challenges and trends for open networking technologies
Threat modeling	Secure programmable data plane

### AUTHOR INSTRUCTIONS

Paper submissions must present original, unpublished research or experiences. Papers under review elsewhere must not be submitted to the workshop. All contributions must be submitted in PDF format via [https://submissoes.sbc.org.br/im2017\\_dissect2017](https://submissoes.sbc.org.br/im2017_dissect2017).

All papers must be limited to 6 pages in an IEEE 2-column style and will be subject to a peer-review process. The accepted papers will be submitted for publication in the IEEE Xplore Digital Library. Papers will be withdrawn from IEEE Xplore in case the authors do not present their paper at the workshop.

Distinguished papers will be invited to submit an extended version for a Special Issue of the International Journal on Network Management (IJNM) on Security for Emerging Open Networking Technologies (<http://goo.gl/4tIMhV>).

### IMPORTANT DATES

#### Paper Registration Deadline

December 15th, 2016

#### Paper Registration Deadline

December 19th, 2016

#### Notification of Acceptance

January 30th, 2017

#### Camera-ready papers

February 15th, 2017

### ORGANIZING COMMITTEE

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For more information, please visit  
<http://www.dissect.vcu.edu/2017>