The computer networking landscape is subject to a multitude of changes that occur very rapidly. First, paradigm shifts such as fog computing, mobile edge computing, Named Data Networking (NDN) and emerging open networking technologies 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, those paradigm shifts bring a multitude of security challenges that have to be addressed in order to provide secure, trustworthy, and privacy-preserving data communication and network services. Second, large scale and distributed deployment of mobile communications, Internet-of-Things (IoT), Intelligent Transport Systems, smart grids or industrial systems has become real but also emphasizes particular privacy and security issues to be overcome, especially when interconnected with Internet.

Addressing all 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. New types of attacks and threats also appear against usual services over Internet such as DNS or routing. DISSECT 2019 follows the track of its four previous editions, and will put focus on security issues and challenges arising with the emergence of novel networking technologies and paradigms but also on new threats emerging against former services and technologies, towards a secure cognitive management in a cyber-world. 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) presenting and discussing 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
- Privacy-preserving solutions
- Security models and threats
- Security and privacy properties and policies
- Verification and enforcement of security properties
- Trust and identity management
- NFV-based security functions and services
- Security of software-defined infrastructures, protocols and interfaces
- Threat modeling
- Security measurement and monitoring
- Industrial Control System security
- Security and availability management
- Security for Internet of Things
- Intrusion detection, tolerance, and prevention
- Honeypots
- Network forensics and auditing
- Detection and resilience against large-scale distributed attacks
- Security of programmable components
- Security-related business and legal aspects
- Security challenges and trends for open networking technologies
- Secure programmable data plane
- Collaborative intrusion detection
- Blockchain and distributed consensus

IMPORTANT DATES
Paper Submission Deadline
Dec 15, 2018
Notification of Acceptance
Jan 5, 2019
Camera-ready papers
Jan 25, 2019

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