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SCAN: Advances in Software Defined and Context-Aware Cognitive Networks

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IEEE International Workshop on Advances in Software Defined and Context Aware Cognitive Radio Networks (IEEE SCAN-2017)
in conjunction with IEEE INFOCOM 2017, 1-4 May 2017, Atlanta, GA, USA

Paper submission deadline: **January 24, 2017 (Firm Extended)**

Future wireless systems will require a paradigm shift in how they are networked, organized, configured, optimized, and recovered automatically based on their operating situations. With the emergence of software defined networks, dynamic adaptive services and applications are gaining much attention since they allow automatic configuration of devices and their parameters, systems, and services to user's context change. The automatic configuration of devices and their parameters with data analytics allow devices to implement cyber defense solutions. In addition, context awareness, with the help of software defined and cognitive systems, allows customization of operating parameters of devices, users, applications, and networks based on the current context.

Our aim is to promote the development of intelligent networks by creating intelligent framework, protocols and algorithms. The proposed INFOCOM workshop SCAN-2017 will serve as a forum for researchers from academia, government and industries to exchange ideas and present new results and provide future visions on the software defined and context-aware cognitive networks.

Topics include, but not limited to:

- Architecture and protocols for software defined networks
- Big data analytics in software defined and cognitive networks
- Cybersecurity through software defined and cognitive networks
- Software defined and cognitive networks for cyber-physical systems and Internet-of-Things
- Software defined and cognitive networks for smart cities
- Reliability, efficiency and routing issues in context-aware systems
- Fundamental limits for opportunistic cognitive communications
- Co-existence of opportunistic communication networks
- Opportunistic spectrum access in mobile and vehicular networks
- Data dissemination techniques in context-aware systems
- Context aware mechanisms and algorithms
- Cognition-driven information processing and decision making
- Trust, security, privacy, and reputation
- Socio-economic models for autonomic and opportunistic communications
- Cognitive communication and networking
- Context based content delivery and adaptive schemes
- Network virtualization and software defined networks
- Wireless virtualization and dynamic spectrum sharing
- Self-organization, self-configuration and self-recovery
- Software defined systems scalability and optimization
- Software defined systems challenges and opportunities
- Biological-inspired networking

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