

NEMA 2011

2nd International Workshop on

Network Embedded Management & Applications

October 28, 2011, Paris, France

Co-located with CNSM 2011

<http://nema.networkembedded.org/>



Important Dates

Registration – May 25

Submission – May 26

Notification – July 8

Camera ready – August 5

Workshop – Oct 28

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Call for Papers

Modern network devices are becoming increasingly “intelligent” and programmable. Examples range from router scripting environments to fully programmable server blades. As a result, networked applications are no longer constrained just to servers that are interconnected via a network, but can migrate into and become embedded within the network itself. The next frontier lies in applications that go beyond traditional management and control functions and that are becoming increasingly decentralized, not constrained in scope to individual systems. Examples include decentralized monitoring, gossip-based configuration, network event correlation inside the network across multiple systems, overlay control protocols, and network-aware multi-media applications. At the same time, the trend of software-defined networks looks at utilizing increased programmability of networks to separate traditional device software architectures and add more networking intelligence outside, not inside the network.

The goal of the second edition of NEMA is to provide a platform at which researchers and practitioners can discuss the latest trends and ongoing research in network-embeddable applications and contrast different emerging approaches of how to best leverage increased network programmability. Topics of interest include but are not limited to:

Enabling concepts

- Programmable networking infrastructure
- Centralized concepts, e.g. OpenFlow
- Decentralized concepts, e.g. peer-to-peer and ad-hoc networking
- Open Router Platforms

New networking paradigms - network embedded applications

- Services implemented at the network element level instead of central servers
- Client-server concepts that implement parts of a service at the network level
- Software-defined Networking
- Network-enabling the Cloud
- Intelligent networking inside the Cloud
- Context and energy-aware networking; “Embedded Green”
- Content-centric networking
- DPI (Deep Packet Inspection) enabled management and control applications

New management paradigms - network embedded management

- Decentralized management algorithms
- Intelligent network instrumentation
- Network management implications of programmable network devices
- Instrumentation and manageability integration of network-embedded applications
- Enhanced IPFIX concepts

The workshop is technically co-sponsored by IEEE Communications Society and IFIP. The proceedings of the workshop will be published with IEEE Xplore.

Paper registration

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