



Strand 3 - R&I: Network management

Profile

- 25 researchers & engineers
- 16 R&D EU-funded Projects (since FP6); 4 coordinated by SCAN
- 10 Industry Contracts
- More than 500 publications
- More than 4000 citations

Our Focus

- Mobile/Wireless Communications (LTE, Radio Access Networks, IP networking)
- Network Management
- Software-Defined Networks (SDN) - Network Function Virtualisation (NFV)
- Future Internet Services

Standardization

- ETSI RRS/NTECH/NFV 
- IEEE SCC41 
- Green Touch Forum 
- Wireless Innovation Forum 

EU Projects

FI-PPP



FP7 CIP-ICT-PSP



FP7 ICT



FP6 IST



FP5 IST



Awards

- FIA 2014 Best Demonstration Award (LiveCity)
- FIA 2013 Best Session Award
- ICT-SUMMIT 2009, Best Demo Award (E3)
- Member of Future Internet Assembly Steering Committee
- Best paper awards in prestigious conferences

Expertise

Interests

Cognitive Systems

- Embed Cognition in the Wireless Network Management
 - Hierarchical cognitive engine design
 - Fuzzy-Logic based decision making
 - Extend pre-defined decision making schemes via learning based on feedback/history
- Behavioristic approaches for cognitive systems
- Combinatorial schemes for finding largest, smallest, or optimal states

Big Data for Cognition Enhancement

- Exploit collected and stored data of OSS/BSS systems in order to enhance the decision making capability of self-managed systems
- Introduction of big data-based prediction scheme for
 - Fault management
 - Resource provisioning optimization



Expertise

Interests

Coordination In self-Managed Systems

- Self-Organizing networks (SON)
coordination for wireless access
networks performance improvement
 - Conflicts/Dependencies among different self-optimization processes
- Joint coordination and management of physical and virtual resources for E2E performance improvement

SDN for Network Management

- Wireless Software Defined Networks
 - Use of SDN for resource reservation management
 - Support flows prioritization with high QoS requirements
- Big data analytics for SDN optimization

