



#### PA: Panel

##### PA1 : Do network engineers dream of full automation?

Nikos Anerousis, IBM, USA,  
Christian Jacquenet, Orange Labs, France,  
Kireeti Kompella, Juniper Networks, USA,  
Marina Thottan, Nokia - Bell Labs, USA,  
Panel Moderators: Prosper Chemouil, Cnam, France)

##### PA2 : Research Challenges in Artificial Intelligence for Network Management

Panel Members: to be confirmed  
Panel Moderators: Jérôme François, INRIA Nancy, France

##### PA3 : Intelligent management of Future Industrial Networks

Thomas Schmidt, Hamburg University, Germany  
Luca Foschin, University of Bologna, Italy  
Marie-Jose Montpetit, Concordia University, Canada  
Panel Moderators: Cedric Westphal, Futurewei, USA

DEP: <TO BE DEFINED>

#### Keynotes

KEYNOTE 1 – TRULY AUTONOMOUS NETWORKING: AN MNO'S PERSPECTIVE (Pierre Imai, Rakuten, Japan)

KEYNOTE 2 – AI-BASED CYBER DEFENCE: TWO SIDES OF THE MEDA (Gabi Dreo Rodosek, Research Institute CODE, Germany)

KEYNOTE 3 – THE ROAD TO AWARE-NETS (Diego R. Lopez, Telefonica I+D, Spain)

KEYNOTE 4 – <TO BE DEFINED>

KEYNOTE 5 – FROM CONNECTED THINGS TO CONNECTED INTELLIGENCE (Mérouane Debbah, Huawei, France)

#### TU: Tutorial

TU1: Blockchain-based Remote Electronic Voting from Theory to Practice (Christian Killer, Bruno Rodrigues, Eder Scheid, Muriel Franco, Burkhard Stiller)

TU2: Next-Generation Closed-Loop Automation – An Inside View (Laurent Ciavaglia, Pedro Henrique Gomes, Ishan Vaishnavi)

TU3: Practical Security Analysis of IoT Devices (Abdelkader LAHMADI and Frédéric BECK)

#### WS: Workshop

WS1: AnNet 2021

WS2: MFI 4.0

WS3: manage-IoT 2021

WS4: DISSECT+GraSec 2021

WS5: ITAVT 2021

WS6: FlexNGIA 2021

#### TS: Technical Session

TS 1 Fault Management

- TS 2 IoT
- TS 3 Security
- TS 4 Network Intelligence/Automation
- TS 5 Wireless/Radio Networks
- TS 6 SDN and Network Virtualization
- TS 7 Edge Computing, Networking and Intelligence
- TS 8 Programmable Dataplanes
- TS 9 NFV I
- TS 10 SDN, Cloud and Microservices
- TS 11 Performance Management
- TS 12 NFV II

#### MC: Mini-conference

- MC1 (Asia)
- MC2 (EU+India)
- MC3 (EU)
- MC4 (EU+Brazil)

#### PH: PhD Dissertation Digest

- PH1 PhD Dissertation Digest 1

#### ES: Experience Session

- ES1 Network Operations and Management
- ES2 Issues and Experiences with Practical Deployments
- ES3 Experience Short Papers

PS: Poster Session

- PS1 Poster Session 1
- PS2 Poster Session 2
- PS3 Poster Session 3

DS: Demo Session

- DS1 Demonstration Session 1
- DS2 Demonstration Session 2

Special session (proposal)

NMRG: Introduction to NMRG and technical overview, opportunities for research and collaborations  
IEEE CNOM/IFIP WG6.6