



Welcome to the
**“2nd International Workshop on Network
Intelligence (NI 2019) Machine Learning
for Networking”**

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Technically Sponsored by IEEE Communications Society, Technical Committee on Cognitive Networking, Technical Committee on Big Data, IEEE Network Intelligence Emerging Technologies Initiative

NI2019@IEEE Infocom, Paris 29 April, 2019



IEEE INFOCOM™

Previous editions

- **1st International Workshop on Network Intelligence @ICIN 2018, February 2018**
Joint IEEE ComSoc ETI on Network Intelligence and IRTF NMRG meeting, Orange Labs (France)

Where do we come from?

Network Intelligence

**Machine Learning for
Networking**

NI 2019

NI2019@IEEE Infocom, Paris 29 April, 2019



General Chairs

- Mérouane Debbah (CentraleSupélec, France)
- Baochun Li (University of Toronto, Canada)
- Giovanni Schembra (University of Catania, Italy)
- Dapeng Oliver Wu (University of Florida, USA)

A wide-angle photograph of the Eiffel Tower in Paris, France, under a clear blue sky with scattered white clouds. The tower is the central focus, with the Parisian skyline and green trees visible in the foreground and background.

TPC Chairs

- Laura Galluccio (University of Catania, Italy)
- Qiuyuan Huang (Microsoft Research, USA)
- Yunhuai Liu (Peking University, China)
- Mohamed Faten Zhani (Université du Québec, Canada)



Steering Committee

- Imen Grida Ben Yahia (Orange Labs, France)
- Laurent Ciavaglia (Nokia Bell Labs, France)
- Weverton Cordeiro (UFRGS, Brazil)
- Mérouane Debbah (CentraleSupélec, France)
- Laura Galluccio (University of Catania, Italy)
- Baochun Li (University of Toronto)
- Noura Limam (University of Waterloo, Canada)
- Giovanni Schembra (University of Catania, Italy)
- Dapeng Oliver Wu (University of Florida)
- Mohamed Faten Zhani (École de Technologie Supérieure, Canada)



Main Structure

–2 *Keynote speeches*

- **T. Znati** University of Pittsburg “A Perspective on Intelligence Cyber Security in Emerging Ubiquitous and Pervasive Environments”
- **A. Corsaro** ADLINK Technology Inc. “The Making of Edge Intelligence”

–4 *Sessions*

- **S1: ML for Network design, management and orchestration**
- **S2: ML for Cellular and Wireless Networks Planning**
- **S3: ML for Applications**
- **S4: ML at the Edge and in the Cloud**

–16 *Technical papers*



Statistics

- 41 submitted papers
- 16 accepted papers
- Acceptance rate: 39%
- At least 3 reviews per paper



Technical Program

8:15 – 8:30 **Opening Session**

8:30 – 10:00

- **S1: ML for Network design, management and orchestration**

10:00 – 10:30 Coffee Break

10:30 – 11:15 **Keynote Session:**

Prof. T. Znati, A Perspective on Intelligence
Cyber Security in Emerging Ubiquitous and
Pervasive Environments

11:15 – 12:45

- **S2: ML for Cellular and Wireless Networks Planning**

12:45 – 14:00 Lunch Break

14:00 – 15:30

- **S3: ML for Applications**

15:30 – 16:00 Coffee Break

16:00 – 16:45 **Keynote Session:**

Dr. A. Corsaro, ADLINK Technology Inc.
The Making of Edge Intelligence

16:45 – 18:15

- **S4: ML at the Edge and in the Cloud**

18:15 – 18:30

Workshop Wrap up and Closing Remarks



Enjoy NI 2019 and Paris!

