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Machine Learning for Networking

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Revised Selected Papers

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Preface

The rapid development of new network infrastructures and services has led to the generation of huge amounts of data, and machine learning now appears to be the best solution to process these data and make the right decisions for network management.

The International Conference on Machine Learning for Networking (MLN) aimed at providing a top forum for researchers and practitioners to present and discuss new trends in deep and reinforcement learning, pattern recognition and classification for networks, machine learning for network slicing optimization, 5G systems, user behavior prediction, multimedia, IoT, security and protection, optimization and new innovative machine learning methods, performance analysis of machine learning algorithms, experimental evaluations of machine learning, data mining in heterogeneous networks, distributed and decentralized machine learning algorithms, intelligent cloud-support communications, resource allocation, energy-aware communications, software-defined networks, cooperative networks, positioning and navigation systems, wireless communications, wireless sensor networks, and underwater sensor networks. Due to the special health situation all around the world, all presentations at MLN 2020 were done remotely.

The call for papers resulted in a total of 50 submissions from all around the world: Algeria, Brazil, Canada, France, Greece, India, Italy, Morocco, The Netherlands, Norway, Pakistan, Russia, South Africa, Sweden, Taiwan, Tunisia, Turkey, the United Kingdom, and the United States. All submissions were assigned to at least three members of the Program Committee for review. The Program Committee decided to accept 22 papers. Three intriguing keynotes from Mérouane Debbah, Huawei, France, Philippe Jacquet, Inria, France, and Fakhri Karray, University of Waterloo, Canada, completed the technical program.

We would like to thank all who contributed to the success of this conference, in particular the members of the Program Committee and the reviewers for carefully reviewing the contributions and selecting a high-quality program. Our special thanks go to the members of the Organizing Committee for their great help.

Thursday afternoon was dedicated to the Third International Workshop on Networking for Smart Living (NSL). The technical program of NSL included two presentations and an invited paper by Nirmalya Thakur, University of Cincinnati, USA.

We hope that all participants enjoyed this successful conference.

December 2020

Paul Mühlethaler
Éric Renault

Organization

MLN 2020 was jointly organized by the EVA Project of Inria Paris, the Laboratoire d'Informatique Gaspard-Monge (LIGM) and ESIEE Paris of Université Gustave Eiffel, and CNAM Paris.

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