Special Issue

Machine Learning and Cognitive Networking

Message from the Guest Editor

The rapid progress of cloud with high bitrate requirements substantially affects transport networks. To overcome the issue of capacity crunch in transport networks, new cognitive models need to be developed. These new models are needed to extract valuable information from a comprehensive set of network data. A cognitive network utilizes advanced analytical solutions from several research areas (i.e., deep learning, data analytics, knowledge representation, telecommunication, network management) to solve modern problems in communication networks. The cognitive processes, which learn or use historical data to improve performance, apply various data analytics solutions typically utilizing machine learning techniques. In particular, data analytics (DA), machine learning (ML), and deep learning (DL) concepts are regarded as promising methodological areas to enable cognitive network data analysis; thus enabling, for example, automatized network self-configuration and fault management.

Guest Editor

Dr. Michał Aibin
Khoury College of Computer Sciences, Northeastern University. Vancouver, BC, Canada

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
telecom@mdpi.com

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I would like to introduce the new, online, and open access journal *Telecom*. The purpose of *Telecom* is to publish high-quality research papers as well as review articles that address recent advances in communications technology. We invite researchers to contribute original papers describing applications and experiences in emerging trends of all fields of telecommunications engineering. *Telecom* also welcomes Special Issue proposals from academics and industrial researchers. We aim to facilitate more collaboration between scientists and engineers around the world, such that they will produce their innovative ideas and submit their cutting-edge technologies to *Telecom*. We anticipate the receipt of your contributions to *Telecom*, and we welcome your comments and ideas on how to improve this journal.

Editor-in-Chief

Prof. Dr. Sotirios K. Goudos
Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

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