

Special Issue

Next Generation Inter-Domain Policy Routing

Message from the Guest Editor

Inter-domain routing on the Internet is performed by the de-facto standard Border Gateway Protocol (BGP). Using BGP, each autonomous system (AS) can execute its own policy to select and export routes. Several degrees of routing centralization can be explored and model-free approaches using black box optimization techniques based in recent artificial intelligent advances can be used to overcome the BGP-based system shortcomings in the future Internet. Contributions to this issue containing research contributions in the field of policy-based multipath inter-domain routing are welcome. Examples of topics include, but are not limited to the following: Modeling of distributed policy-based protocols with multiple optimality criteria with or without multipath forwarding capabilities Current Internet networking studies New inter-domain routing architectures Inter-domain routing virtualization and softwarization Programmable inter-domain policy routing Artificial Intelligence-powered control planes for inter-domain routing Machine Learning and Big Data tools in inter-domain policy routing

Guest Editor

Dr. Pedro Amaral

1. Instituto de Telecomunicações, Lisboa, Portugal;
2. Departamento de Engenharia Eletrotécnica, Faculdade de Ciências e Tecnologia Universidade Nova de Lisboa, 2825-149 Caparica, Portugal

Deadline for manuscript submissions

closed (31 December 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/74466

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

mdpi.com/journal/

[applsci](https://doi.org/10.3390/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)