



CALL FOR PAPERS

International Conference on Computational Aspects of Network Science (CAoNS)

19-21 OCTOBER, 2020 Thessaloniki, Greece

<https://caons2020.sigappfr.org>

General Chairs

- Richard Chbeir, France
- Václav Snášel, Czech Republic

Program Chairs

- Yannis Manolopoulos, Cyprus
- Jan Platoš, Czech Republic

Invited Speakers

- Ginestra Bianconi, UK
- Dimitrios Katsaros, Greece

Workshop Chair, Special Issues

- Apostolos Papadopoulos, Greece

Publicity Chairs

- Pavla Dráždilová, Czech Republic
- Anastasios Gounaris, Greece

Webadmin

- Elio Mansour, France



The International Conference on Computational Aspects of Networks Science (CAoNS) will take place at Thessaloniki, the second largest town in Greece, and will be collocated with the 23rd International Conference on Discovery Science (DS). CAoNS aims at bringing together researchers and practitioners working on areas related to any kind of network, such as networks of devices, world wide web, social, bibliographic, biological networks, complex systems, and so on. Due to numerous applications, there is a growing interest in such systems from the point of view of modeling, capturing, storing and management. This is where IT comes into play, e.g. graph databases, machine learning, algorithmic graph theory, distributed and parallel processing. CAoNS is an interdisciplinary venue for computer scientists, physicists, mathematicians and social scientists aiming at sharing ideas and experiences on all computational aspects related to Network Science, and discussing on the broad domains of:

Neural Networks

- Evolutionary Algorithms
- Fuzzy Logic, Multi-valued Logic
- Rough Sets
- Reinforcement Learning

Graph Databases

- NoSQL, RDF, Query languages
- Compressing, Indexing, Mining
- Parallel and Distributed processing

Network Evolution and Growth

- Detection of communities
- Information diffusion
- Topology of real networks

Recommendation

- Link prediction
- Evolution of social network
- Classification in social recommenders

Advertisement Models

- Economics of social network discovery
- Social advertising
- Use of social networks for marketing

Submission, proceedings

Papers must be submitted through EasyChair (<https://easychair.org/my/conference?conf=caons2020>). Submitted papers should not exceed 14 pages (long papers) and 8 pages (short ones), including figures, tables and references. Accepted papers will appear in the proceedings published by Springer CCIS series (**pending**). Author instructions along with LaTeX2e (preferred) and Word macro files are available at <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>. For each accepted paper, at least one of the authors MUST register for the conference by the camera-ready submission deadline with a full registration.

Special issue

A special issue with selected papers will appear at the *World Wide Web* journal by Springer (IF=1.8).

Venue

The venue is a 5* hotel, Grand Hotel Palace, <https://www.grandhotelpalace.gr/en>

Important Dates

- 25 May 2020: Full papers submission
- 20 July 2020: Notification
- 24 August 2020: Camera readies and registration

Search in Network

- Web page ranking informed by social media
- Search algorithms on social networks
- Collaborative Filtering

Security

- Anomaly detection
- Data protection inside communities
- Crime data mining and network analysis
- Modelling trust and reputation

Network Geography

- Geographical clusters, networks and innovation
- Social geography
- International Collaborations in e-Social network.

Web

- Automatic discovery and analysis of Web social networks
- Link Topology and Site Hierarchy, Web communities
- Web mining algorithms

Evaluation

- Test collection
- Benchmark creation
- Measures and methodologies