



## CALL FOR PAPERS

# International Workshop on Computational Aspects of Network Science (CAoNS)

24 AUGUST, 2021 Tartu, Estonia

<https://caons.e-ce.uth.gr/>

### Program Chairs

- Dimitrios Katsaros, Greece
- Yannis Manolopoulos, Cyprus

### Invited Speaker

- Ginestra Bianconi (Queen Mary U. of London)

### Program Committee (to be populated)

- Jorge Bernardino (Poly. Coimbra, PT)
- Richard Cbeir (U. de Pau et des Pays de l'Adour, FR)
- Paquale De Meo (U. Messina, IT)
- Cicek Guven (Tilburg U., NL)
- Maria Halkidi (U. Piraeus, GR)
- Andreas Kaltenbrunner (U. Pompeu Fabra, ES)
- Evangelos Kanoulas (U. Amsterdam, NL)
- Fragkiskos Malliaros (U. Paris-Saclay, FR)
- Fragkiskos Papadopoulos (Technical U. of Cyprus, CY)
- Dimitrios Papakostas (Hellenic Air Force, GR)
- Evaggelia Pitoura (U. Ioannina, GR)
- Dimitrios Rafailidis (U. Thessaly, GR)
- Ryan Rossi (Adobe, US)
- Andrea Tagarelli (U. Calabria, IT)
- Alex Thomo (U. Victoria, CA)
- Sherali Zeadally (U. Kentucky, US)

### Publicity Chair

- Evangelia Fragkou, Greece



The 1<sup>st</sup> International Workshop on Computational Aspects of Networks Science (CAoNS) will take place at Tartu, the second largest city in Estonia, and will be collocated with the 25<sup>th</sup> European Conference on Advances in Databases and Information Systems (ADBIS'2021). CAoNS provides opportunities for researchers and practitioners to share their original research results, and practical development products on Network Science. 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, with main focus on the management of networked data (retrieval, evolution) and on the use of analytics for predictive purposes and/or on the analysis of the networks themselves. 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, distributed and parallel processing. We invite the submission of articles that address various computational aspects of network science. The workshop welcomes submissions of theoretical, technical, experimental, methodological papers, application papers, addressing - though not limited to - the following topics:

#### Machine Learning for Network Data Management

- Data Mining for Network Data
- Machine Learning for Network Data
- Deep (Reinforcement) Learning for Network Data

#### Network/Graph Databases

- NoSQL, RDF, Query languages
- Compressing, (Learned) Indexing, Querying
- Mining
- Parallel and Distributed processing
- Novel Test/Benchmark collections

#### Analytics in Network

- Diffusion processes
- Ranking/Search algorithms
- Recommendations
- Network Evolution and Growth models
- Topology (prediction)

#### Security for Networked Data

- Anomaly detection
- Data protection
- Crime data mining and network analysis
- Trust and Reputation

#### Submission, proceedings

Papers should be submitted in PDF format using the EasyChair online submission system via this EasyChair link <<https://easychair.org/conferences/?conf=adbis2021>>. Be careful to select the CAoNS track for your submission.. Submitted papers should not exceed 6 pages for short papers and 12 pages for full papers, including figures, tables and references. Accepted papers will appear in the CCIS book series published by Springer. 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 a prominent journal (to be announced shortly).

#### Important Dates

- 09 May 2021: Full papers submission
- 13 June 2021: Notification of acceptance
- 27 June 2021: Camera readies and registration

#### Workshop's web site

<https://caons.e-ce.uth.gr>