



Call for Contributions

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=DATA+ANALYTICS+2022+Special>

Please select Track Preference as **TTASC**

3. Note: For 2022, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.

Special track

TTASC: Transport and Traffic Analytics in Smart Cities

Chair

Prof. Dr. Ivana Semanjski, Ghent University, Belgium

Ivana.Semanjski@UGent.be

along with

DATA ANALYTICS 2022: The Eleventh International Conference on Data Analytics

<https://www.iaria.org/conferences2022/DATAANALYTICS22.html>

November 13 - 17, 2022 - Valencia, Spain

The special session on Transport and Traffic Analytics in Smart Cities (TTASC) will bring together researchers and practitioners to present and exchange their latest results, ideas and good practice in all areas of Transport and Traffic Analytics with, this year, a special focus on the urban air mobility (UAM). UAM offers a promising opportunity to mitigate existing surface congestion by integrating an additional dimension in the urban mobility landscape, which is particularly promising option for the emergency services, which allows extension of current capabilities of the mobility system in life critical/threatening situations as emergency medical logistics, search and rescue or firefighting. Nonetheless, to be able to integrate such services in an efficient, meaningful, and sustainable manner still a number of challenges need to be tackled and this special session aims to serve as a platform to support discussion and exchange of ideas in this context.

Topics include, but are not limited to:

- Urban Air Mobility:
 - Advanced air mobility (AAM)
 - UAM operations and services planning and integration
 - Path planning
 - Autonomous flight control
 - Flight dynamics modelling and analytics
 - UAV sensing and data analytics (radar, lidar, camera, etc.)
 - Digital twin for UAM
 - Virtual certification
 - Environmental modelling (e.g., noise, emissions)
 - Emergency landing solutions
 - Emergency services and coordination
 - Institutional and legal aspects of UAM.

- **Smart city sensing:**
 - Data sensing, integration, and information fusion
 - IoT systems for sustainable mobility
 - Emerging sensing solutions using autonomous vehicles and unmanned aerial vehicles
 - Crowdsourcing, crowdsensing, participatory sensing;
- **Data pre-processing:**
 - Security, trust, privacy and anonymization for ITS applications
 - Data integrity and reliability
- **Data Analytics:**
 - Big data management and analytics for smart city applications
 - Big data for vehicular sensor networks
 - Big data for travel behaviour analytics
 - Context-aware mobility related analytics
 - Self-learning (pattern discovery, prediction, auto-configuration);
 - Optimization and metaheuristics
 - Data mining
- **Smart City mobility services:**
 - Geo-localized services, location-based services, near field communications
 - Real-time traveller information
 - Management of parking spaces
 - Multimodal route planning
 - Cooperative mobility
 - Smart Demand Management (passengers and freight)
 - Connected and autonomous vehicles
 - Models of smart urban mobility systems
- **Smart mobility and society:**
 - Smart mobility policy making
 - Institutional and legal aspects of smart mobility
 - Economic and environmental impacts of smart mobility
 - Human factors in smart mobility
 - New concepts, case studies, and benchmarking of urban mobility
 - Smart users experience

Program Committee

- Ivana Semanjski, Ghent University, Belgium
- Antonio Pratelli, University of Pisa, Italy
- Massimiliano Pieraccini, University of Florence, Italy
- Silvio Semanjski, SEAL aeronautica, Spain
- Sidharta Gautama, Ghent University, Belgium
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- Olivier Broca, Siemens, France
- Kathryn Bulanowski, EPF, Belgium
- Jiri Karpeta, Robodrone, Czech Republic

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]

- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: Oct 1, 2022

Notification: Oct 17, 2022

Registration: Oct 27, 2022

Camera ready: Oct 27, 2022

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=DATA+ANALYTICS+2022+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

Contact

Chair: Ivana Semanjski : Ivana.Semanjski@UGent.be

Logistics: steve@iaia.org