CALL FOR PAPERS – WCTS 2019

1st IFAC Workshop on Control of Transportation Systems

JUNE 30 – JULY 01 HAIFA, ISRAEL

The 1st IFAC Workshop on Control of Transportation Systems (WCTS 2019) will be held on June 30 – July 1, 2019, at Technion – Israel Institute of Technology, Haifa, Israel. Haifa is situated in a broad natural bay between the Mediterranean Sea and the Carmel mountain range. The terraced landscape of the city offers a rich variety of breathtaking panoramas. The city has many museums and cultural centers as well as restored quarters, historic sites, and beautiful beaches. WCTS 2019 will include several sessions, keynote lectures, and social events. The main scope of the WCTS 2019 is the development of automatic control theory for the purpose to redefine and redesign advanced integrated traffic management systems to improve our cities to become more energy-efficient, sustainable, and livable. While the impending advent of fully autonomous vehicles in the future, their impact on the city traffic is not yet clear, given that the current traffic management is limited to conventional vehicles. The future autonomous vehicles can introduce a paradigm shift in traffic management. It will include new management structure, goals, and means which might require us to develop new control methods, tools, and schemes.

WCTS 2019 will provide an interesting opportunity for the academic and industrial communities to investigate new ideas, to share innovative solutions, and to discuss future research directions of control in transportation systems.

Paper submission deadline	**December 23rd 2018**
Notification of acceptance	**March 25th 2019**
Final paper submission & early registration deadline	**April 30th 2019**

Technical topics and areas include (but are not limited to):

- Control of connected and automated vehicles
- Modeling and control of mixed autonomous and conventional traffic
- Large-scale urban traffic management
- Planning and management of public transportation
- Safety and security in future transportation systems
- Vehicle automation and communication systems
- Multimodal transport modeling, monitoring, and control
- Simulation tools and commercial software
- Future automated highway systems

- Ramp metering and speed limit control
- Urban mobility systems
- New technologies for control in transportation
- Energy control in transportation
- Human factors in traffic and transportation control
- Freight transportation
- Rail transportation modeling and control systems
- Maritime transportation planning and control
- Control and scheduling of air transportation
- Modeling and control of road traffic networks

SUBMISSION DETAILS

Papers must be submitted electronically by December 23, 2018. The paper format must follow IFAC paper submission rules. IFAC templates and guidelines are provided on the IFAC website (https://www.ifac-control.org/events/author-guide).

All submissions must be electronically submitted through the PaperPlaza Conference Manuscript Management System (https://ifac.papercept.net).

https://wcts2019.net.technion.ac.il   wcts2019@technion.ac.il

https://wcts2019.net.technion.ac.il   wcts2019@technion.ac.il