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CALL FOR PAPERS
SPECIAL SESSION ON
Artificial Intelligence Applied to Mobility and Transportation in Smart Cities
for ICCAD'24
May 15-17, 2024, Paris-France

Session Co-Chairs:

- Marcin Woźniak, Faculty of Applied Mathematics, Silesian University of Technology, Gliwice, Poland,
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- Rocío Pérez de Prado, Telecommunication Engineering Department, University of Jaén, Jaén, Spain,
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Session description:

The interest in more efficient mobility and transportation solutions in smart cities has increased exponentially in recent years. Particularly, recent years have made society realize that, especially in cities, it is feasible to radically alter mobility habits. The pandemic has in fact expedited a number of current trends, such as the rise in home working, the usage of individual transportation modes, and increasing public knowledge of and worries about environmental sustainability. This acceleration creates a rare chance for fundamental progress toward more robust, sustainable, and human-centred transportation and mobility systems during the coming years. The goals of smart mobility solutions are to save costs, improve air and noise pollution, increase safety and efficiency, and lessen traffic congestion. In order to progressively decarbonize the transportation industry and meet the challenging emission reduction targets today, smart mobility solutions are also recognized as being crucial. Particularly in urban settings, AI is a formidable emerging technology that has the potential to accelerate the adoption of more efficient, sustainable, and human-oriented mobility and transportation systems.

The goal of this special session is to foster the development of comprehensive strategies for managing urban mobility fully reaping the benefits of AI. In order to make educated decisions on sustainable urban and transit systems, decision-makers should take into account both transit mobility patterns and local cities information. The data generated by smart infrastructures (such as traffic controllers and intelligent traffic lights, urban management systems and centrals, security video systems, etc.), fleet data (such as automobile data, eBike fleets, and transportation fleets), and third-party data can all be used by AI when it comes to urban mobility. Further research and efforts in this area are essential to make sure that the AI solution is aware of inclusiveness and security since it relies on trustworthy, impartial data that is fairly shared while protecting the privacy of residents.

The topics of interest include, but are not limited to:

- Mobility as a service
- Autonomous driving in urban mobility
- Blockchain in smart mobility
- Sustainable production of electric vehicles
- Energy management in smart transportation
- Electrical vehicles and e-bikes integration in smart cities
- Electromobility
- Intelligent parking
- Multimodal public transport
- Automation in decision support

SUBMISSION

Papers must be submitted electronically for peer review by**: December 15, 2023**

https://www.iccad-conf.com/submission/

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).