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2018 CALL-FOR-PAPERS

This call for papers is motivated by the research work submitted to the Traffic and Granular Flow (TGF) conference that was organized in July of 2017. This conference is set up for easy exchange of scientific ideas between professionals, researchers, experienced and starting PhD/M.S. Students. This allows exploring and showing opportunities for interdisciplinary research. The theme of the TGF17 Conference was:

"From Molecular Interactions to Internet of Things and Smart Cities: The Role of Technology in the Understanding and the Evolution of Particle Dynamics"

Focusing on the scientific approaches adopted to analyze and predict particle dynamics, the fundamental modeling of traffic and granular flow dynamics along with the corresponding simulation, calibration and validation remains a subject of research. Advances made in this domain are lacking behind the advances made associated with data detection methods and data driven modeling including machine learning and artificial intelligence. As an illustration, the pedestrian traffic modeling community still relies on a limited number of physics based models (including the social force model) to capture high-resolution microscopic traffic characteristics in traffic dynamics. In line of such need, the focus of this paper is on traffic and granular flow modeling efforts in different environments.

Accordingly, this special call for paper's topics cover, but are not limited to, the following areas:

- Mixed non-motorized traffic systems (i.e. bike and/or pedestrian traffic)
- Particle Dynamics
- Pedestrian and Vehicular Traffic Flow Modelling, Calibration and Validation
- Complex Biological and Transportation Systems
- Travel Behavioural Models

PROPOSED SCHEDULE

Activity	Duration (month)	Start Date	End Date
Papers submitted to the special issue	3	06/01/2018	08/31/2018
Reviews requested	1	09/01/2018	09/30/2018
Reviews received	2	09/01/2018	10/31/2018
Authors notified of changes	0.5	11/01/2018	11/15/2018
Authors response received and reviewed	2	11/15/2018	01/15/2019
Final acceptance decisions	0.5	01/15/2019	01/31/2019
Final revisions requested (per journal format)	0.5	02/01/2019	02/15/2019
Final revisions received	1	02/15/2019	03/15/2019
Write editorial	0.5	03/15/2019	03/31/2019
Send final papers & editorial to Elsevier	0.5	04/01/2019	04/15/2019