

# RABIE RAMADAN

6957 N Greenview Ave, Apt 3B, Chicago IL, 60626

[Personal Website](#) ◊ [rabie.ramadan@temple.edu](mailto:rabie.ramadan@temple.edu) ◊ (215) 824-5071 ◊ [LinkedIn Profile](#)

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## PHD DISSERTATION

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**Non-Equilibrium Dynamics of Second Order Traffic Models,**

**R. Ramadan,**

*Temple University.*

*May 2020*

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## PUBLICATIONS

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**Pitfalls in brain age analyses,**

E. Butler, A. Chen, **R. Ramadan**, K. Ruparel, T. Moore, F. Zhang, H. Shou, R. Gur, T. Nichols, R. Shinohara,

*Human Brain Mapping.*

*May 2021*

**Integrated framework of dynamics, instabilities, energy models, and sparse flow controllers,**

J. Lee, G. Gunter, **R. Ramadan**, S. Almatrudi, P. Arnold, J. Aquino, W. Barbour, R. Bhadani, J. Carpio, et al.,

*Accepted to The Workshop on Data-Driven and Intelligent Cyber-Physical Systems (DI-CPS).*

*April 2021*

**Challenges of microsimulation calibration with traffic waves using aggregate measurements,**

G. Gunter, S. Shanto, **R. Ramadan**, B. Seibold, D. Work,

*Proceedings of the Transportation Research Board, 2021.*

*January 2021*

**Structural properties of the stability of Jamitons,**

**R. Ramadan**, B. Seibold, R. Rosales,

*ICIAM2019 SEMA SIMAI Springer Series.*

*April 2020*

**Traffic flow control and fuel consumption reduction via moving bottlenecks,**

**R. Ramadan**, B. Seibold,

*Proceedings of the Transportation Research Board, 2017.*

*February 2017*

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## MANUSCRIPTS UNDER PREPARATION

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**Macroscopic manifestations of microscopic traffic waves and sparse controls,**

N. Khoudari, **R. Ramadan**, M. Ross, A. Bayen, B. Seibold,

*under preparation.*

*2021*

**Calibrated time-instantaneous energy consumption models of representative ICE vehicle classes,**

**R. Ramadan**, K. Butts, S. Almatrudi, J. Carpio, J. Lee, B. Seibold,

*under preparation.*

*2021*