NSF WORKSHOP ON EXUBERANCE OF MACHINE LEARNING IN TRANSPORT PHENOMENA
FEBRUARY 10 — 11, 2020
DALLAS, TX

MLTP2020.COM

Organizers

Amir Barati Farimani	Carnegie Mellon University
Ali Beskok	Southern Methodist University
Peyman Givi	University of Pittsburgh

Machine Learning in Transport Phenomena

The objective of this workshop is to assess the state of progress in development, implementation and application of Machine Learning (ML) in transport phenomena. Of particular interest are applications in fluid dynamics, including turbulence, heat & mass transfer, multi-phase flows, biological transport, combustion and other reactive flows. Considering the complexity of such phenomena, the question is to what to expect from ML and to what extend such learnings can assist in modeling and inference of transport phenomena. Distinguished scholars with expertise in both machine learning and transport phenomena are invited to discuss their recent results, and to identify the paths to be taken in future to merge ML into transport modeling.

Agenda

Monday, February 10, 2020.

	8:30 AM	Welcoming Remarks
9:00 AM to	10:20 PM	Technical Session
10:20 AM to	10:40 PM	Coffee Break
10:40 AM to	12:00 PM	Technical Session
12:00 PM to	1:30 PM	Lunch
1:30 PM to	2:50 PM	Technical Session
2:50 PM to	3:30 PM	Coffee Break
3:30 PM to	5:00 PM	Panel Discussion
	5:00 PM	Poster Session

Tuesday, February 11, 2020.

	8:30 AM	Welcoming Remarks
9:00 AM to	10:20 PM	Technical Session
10:20 AM to	10:40 PM	Coffee Break
10:40 AM to	12:00 PM	Technical Session
12:00 PM to	1:30 PM	Lunch
1:30 PM to	2:50 PM	Technical Session
2:50 PM to	3:30 PM	Coffee Break
3:30 PM to	5:00 PM	Panel Discussion
	5:00 PM	Adjourn

Invited Lectures

Monday, February 10, 2020

Presentation									
Time									
Session & Chair									

Invited Lectures

Tuesday, February 11, 2020

Presentation									
Time									
Session & Chair									

Notes

Venues

The workshop will be held at Martha Proctor Mack Grand Ballroom, located on the third floor of the Umphrey Lee Center at 3300 Dyer Street, Dallas, TX in Southern Methodist University.