

**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.

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| --- | --- |
| 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.

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| 3:30 PM to 5:00 PM | Panel Discussion |
| 5:00 PM | Adjourn |

**Invited Lectures**

**Monday, February 10, 2020**

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| **Presentation** |  |  |  |  |  |  |  |  |  |
| **Time** |  |  |  |  |  |  |  |  |  |
| **Session & Chair** |  |  |  |  |  |  |  |  |  |

**Invited Lectures**

**Tuesday, February 11, 2020**

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| **Presentation** |  |  |  |  |  |  |  |  |  |
| **Time** |  |  |  |  |  |  |  |  |  |
| **Session & Chair** |  |  |  |  |  |  |  |  |  |

**Notes**

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**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.

