

INTERNATIONAL CONFERENCE
Foundations of Process Analytics and Machine learning

FOPAM 2019

StateView Hotel, Raleigh, North Carolina
August 6-9, 2019

Scope: FOPAM 2019 brings together industry and academia to discuss the current status and future directions in process data analytics and machine learning. Group interactions will be promoted by invited talks, discussions, poster sessions, and other unstructured activities in the afternoons. The conference starts with a plenary on the evening of August 6 and ends with an evening banquet on August 9. The conference will be preceded by optional workshops.

Speakers: Marina Kovach (IBM), Alán Aspuru-Guzik (U Toronto), Leo H. Chiang (Dow Chemical), Paulette Clancy (Johns Hopkins), Conner W. Coley (MIT), Keith Collins (SAS), Conchita Jimenez-Gonzalez (GSK), Jay H. Lee (KAIST), Warren B. Powell (Princeton), S. Joe Qin (USC), Michael Rappa (NCSU), Melanie Zeilinger (ETH Zurich).

INVITED AND CONTRIBUTED ABSTRACTS KEY DATES

Abstract Submission Deadline: **May 22, 2019**

Abstract Reviews Returned: **May 29, 2019**

Final Abstract Submissions: **July 1, 2019**

Authors of accepted abstracts invited to submit manuscript to a special issue of *Computers and Chemical Engineering*.

SESSIONS

- Synergies among process, materials, business, and supply chain data analytics
- Data analytics and high-throughput data processing for process monitoring, estimation, and diagnosis
- Machine learning for process and control design
- Computational chemistry/materials analytics (including machine learning for molecular design)
- Reinforcement learning and deep reinforcement learning for process operations and control
- Data analytics education for chemical engineers



Chairs: Richard D. Braatz (MIT), Thomas A. Badgwell (ExxonMobil), and Phillip R. Westmoreland (NCSU)

Advisory Committee: Michael Baldea (UT Austin), Selen Cremaschi (Auburn), R. Bhushan Gopaluni (U British Columbia), Leo H. Chiang (Dow Chemical), Martha A. Grover (Georgia Tech), Johannes Hachmann (U Buffalo), Jay H. Lee (KAIST), Heather J. Kulik (MIT), Jonathan Moore (Dow Chemical), S. Joe Qin (USC), Nikolaos V. Sahinidis (Carnegie Mellon), Fengqi You (Cornell), Victor Zavala (U Wisconsin)

Website: www.fopam.org

Please email questions to Robin Craven, FOPAM 2019 Conference Manager, at robin@fopam.org

