



MUMS Program Opening Workshop
August 20-24, 2018

SPEAKER TITLES/ABSTRACTS

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“Bound-to-Bound-Data-Collaboration: Prediction on the Feasible Set”

The methodology of Bound-to-Bound-Data-Collaboration (abbreviated B2BDC) deploys semidefinite-programming algorithms, where the initial bounds on unknowns are combined with initial bounds of experimental data to produce new uncertainty bounds for the unknowns that are consistent with the data and, finally, deterministic uncertainty bounds for prediction in new settings. The presentation will review the current state of the B2BDC framework, emphasizing fundamental aspects of data-model analysis and interpolated prediction for physically-based models.