UNIVERSITY of HOUSTON

Department of Mathematics

Scientific Computing Seminar

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Data-driven modeling for nonlinear dynamical systems

Monday, November 14, 2022 3 PM- 3:50 PM Room 646 PGH

Abstract: Data-driven discovery has become a very important paradigm for science and engineering. In this talk, I will present data-driven modeling for nonlinear dynamical systems using transfer operators. With time-series data, transfer operators are used to model deterministic dynamical systems and stochastic dynamical systems. The resultant data-driven models can be used for system identification, prediction and uncertainty quantification.

This seminar is easily accessible to persons with disabilities. For more information or for assistance, please contact the Mathematics Department at 743-3500.