AMCS Day, June 4, 2020

Zoom link: **https://uiowa.zoom.us/j/92852569416**

Please keep your camera on, but mute your microphone

- 9:00am Welcome remarks

- 9:10am Shuyang Fu : *Nonlinear expectations and viscosity solutions to differential equations*

- 9:25am Melanie King : *The collapse problem in image registration*

- 9:40am Xinwei Chen : *Deep Q-learning for same-day delivery with a fleet of vehicles and drones*

- 10:00am Pake Melland : *Data driven decomposition of ECoG data in an auditory bistability task*

- 10:20am Brice Merwine : *The generalized-α method for constrained and stiff problems in mechanics*

- 10:40am Jared Grove : *A k-medoids approach to exploring districting plans*

- 11:00am Guest speaker: David Cohen (Chalmers University of Technology, Sweden) : *Drift-preserving schemes for stochastic Hamiltonian systems*

- 11:45am Lunch break

- 12:30pm Michael Kratochvil : *Expansion modeling and optimization of large-scale power networks*

- 12:50pm Sara Reed : *The value of autonomous vehicles in last-mile delivery*

- 1:10pm Yanqing Shen : *An introduction to Gaussian processes with applications on multifidelity methods*

- 1:25pm Violet Tiema : *A data driven approach to a multilayer extreme learning*

- 1:45pm Rajinda Wickrama : *Random field models for pricing interest-rate derivatives*

- 2:05pm 2016 AMCS alumnus: Nan Hu (Genentech/Roche, San Francisco, CA, gene.com)

- 2:45pm 2018 AMCS alumnus: Yang Yang (Hermes Microvision/ASML, San Jose, CA, www.asml.com/en/compan asml/hmi)