

Department of Mathematics, University of Illinois at Urbana-Champaign

mathematics

IN SCIENCE & SOCIETY

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Mathematics & Autonomy

Mathematical tools and techniques will have an important role to play in informing and guiding engineering and system design practice as it pertains to autonomous systems such as self-driving cars. Perhaps the most prominent interface between mathematics and autonomous systems research is via statistics and machine learning. However, this does not exhaust the usefulness of mathematics in this area. In this talk I will introduce some more exotic applications of mathematics—drawing on a range of areas from logic to dynamical systems—to autonomous and semi-autonomous systems.

4:00 p.m.
245 Altgeld Hall
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www.math.illinois.edu/MSS

