TEACHING SEMINAR

Controllability of dynamical systems

FRIDAY, MARCH 22ND 12:30PM-1:20PM
ARMS B071 OR WEBEX

TAKASHI TANAKA

Faculty Candidate - Open Search

ABSTRACT

This teaching seminar is a friendly introduction to the concept of controllability, an essential property of a control system. The seminar targets undergraduate students who have some exposure to state space models but are new to the concept of controllability. This seminar is based on the lecture material I designed for an undergraduate course on 'Feedback Control Systems' that I recently taught.

BIOGRAPHY

Takashi Tanaka is an Assistant Professor in the Department of Aerospace Engineering and Engineering Mechanics at the University of Texas at Austin since 2017. He received his B.S. degree from the University of Tokyo in 2006, M.S. and Ph.D. degrees from UIUC in 2009 and 2012, all in Aerospace Engineering. Prior to joining UT Austin, he held postdoctoral researcher positions at MIT and KTH Royal Institute of Technology. His research interest is broad in control, optimization, games, and information theory; most recently their applications to networked control systems, real-time data sharing, and strategic perception. He is the recipient of the DARPA Young Faculty Award, the AFOSR Young Investigator Program award, and the NSF Career award.

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