Iman Nodozi

Graduate Research Assistant
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Research Interests
Convex Optimization, Hybrid Systems, Nonlinear Systems, Adaptive Control, Model Predictive Control, Phase Locked Loops

Education

PhD
ECE, University of California, Santa Cruz (UCSC), California, USA. (2019-Now)

Master of Science (M.Sc.)
Imam Khomeini International University (IKIU), Qazvin, Iran.(2013-2016)
Master of Science, Electrical Engineering, Control

Bachelor of Science (B.Sc.)
Hamedan University of Technology (HUT), Hamedan, Iran. (2008-2013)
Bachelor of Science, Electrical Engineering, Control

Dissertation

M.Sc. Thesis: "Nonlinear Hybrid Systems Control via Linear Matrix Inequalities"

Publication

Iman Nodozi, and Mehdi Rahmani. "LMI-based mixed-integer model predictive control for Hybrid systems." International Journal of Control (2020): 2336-2345. online paper: here.

Iman Nodozi, and Mehdi Rahmani. "LMI-based model predictive control for switched nonlinear systems"."Journal of Process Control" 59 (2017) 49-58. online paper: here.

Mehdi Rahmani, and Iman Nodozi. "Phase-locked loops redesign by the Lyapunov theory." Electronics Letters 51.21 (2015): 1664-1666. online paper: here.

Award
Regents Fellowships, University of California, Santa Cruz, 2019.

Profesional Software and Skills	LᴬTEX, Python, Matlab, CVX, YALMIP and LMI Toolbox, General Software (Microsoft Office), Programmable logic controller (PLC).
Academic Experience	Teaching Assistant for Robutic Course, Fall 2020, Dr. Sanfelice, UCSC Teaching Assistant for Linear Control Course, Fall 2014, Dr. Rahmani, IKIU Teaching Matlab to undergraduate student of IKIU, Spring 2015
Industrial Experience	Electrical Engineer at SOKHT AMA co: (2016-2018)

Aluminum Die Cast machine:
Project manager and engineer for reconstruction and automation of Russian Die Cast machine: 400, 250, and 160 tons.

Auxiliary equipment of Aluminum Die Cast machine:
Project manager and engineer for reconstruction and automation of Die Cast lube spraying system for Agrati 1200 tons, Idra 1100 and 320 tons, and Ardi 420 tons Die Cast. You can find a video of these spraying systems that added to Agrati 1200 tons Die Cast here. (SOKHT AMA.co 2016 and 2017)

Project manager and engineer for reconstruction and automation of Die Cast ladle systems for Buhler 400 tons, Idra 1100, 320 tons Die Cast. You can find a video of these Ladle systems that added to Buhler 400 tons Die Cast here. (SOKHT AMA.co 2016 and 2017)

Project manager and engineer for designing of shot monitoring system for Ardi 420 tons Die Cast. (SOKHT AMA.co 2017)

Industrial Test Machine:
Project manager and engineer for designing, constructing of leakage test machine for oil support and water pump of tu5, tu3, and xu7 engine of Peugeot cars manufactured by Iran Khodro.co . (SOKHT AMA.co 2016 and 2017)

Project manager and engineer for designing, constructing of performance test machine for oil pump of tu5 engine Peugeot cars manufactured by Iran Khodro.co. (SOKHT AMA.co 2017) You can find the video of this testing machine here.

Industrial course:
Academy of DQS excellence Certification of training Course for Requirements of ISO/TS 16949:2009 and IATF 16949:2016 (International Automotive Task Force) courses in winter and fall 2017, respectively, Certificate here.