Saman Cyrus

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Contact Information

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Work Experience

Johnson Controls, Milwaukee, WI. Senior Control Engineer 11/2020-Now
Johnson Controls, Milwaukee, WI. Graduate research Intern 01/2019-11/2020
Apple Inc., Cupertino, CA. Controls Design Engineer Intern 02/2020-05/2020
UW-Madison, Madison, WI. Research and Teaching assistant 09/2013-Present
PEOPLE Program, Madison, WI. Engineering instructor Summer 2015-2016
PSQ Co., Tehran, Iran. Analytical Instrumentation Engineer 04/2010- 08/2013

Teaching Experience

UW–Madison, Physics 109, Circuit I, Electronics circuit II, Linear Programming
K.N.Toosi University of Technology, Probability and statistics, Linear control systems, Modern control systems
Iran University of Science and Technology, Electricity Physics, Electronics I

Professional Activities

Reviewer, International Journal of Robust and Nonlinear Control, American Control Conference, IEEE Transactions on Automatic Control, CDC, SN Applied Sciences, The Journal of Astronautical Sciences.
Professional Activities, Treasurer, Persian Student Society, UW-Madison.
Membership, IEEE, SIAM

Education

University of Wisconsin–Madison, Madison, Wisconsin, USA
PhD Electrical and Computer Engineering 2021
M.Sc. Mechanical Engineering 2018
M.Sc. Computer Sciences 2017
M.Sc. Electrical Engineering 2015

K.N.Toosi University of Technology, Tehran, Iran
M.Sc. Electrical Engineering-Controls 2013

Iran University of Science & Technology, Tehran, Iran
B.Sc. Electrical Engineering 2009

Research Interests

Optimization, Machine Learning, Robust Control, Model Predictive Control

Software

C++, Python, Matlab, Simulink.

Selected Publications

Cyrus, S., Lessard L., "Generalized necessary and sufficient robust boundedness results for feedback systems", Preprint.
Cyrus, S., Lessard L.,"Unified Necessary and Sufficient Conditions for the Robust Stability of Interconnected Sector-Bounded Systems." *CDC 2019.*
Cyrus, S., Hu B., Van Scoy, B., Lessard, L., "A Robust Accelerated Optimization Algorithm for Strongly Convex Functions", *ACC 2018.*
Cyrus, S., Lesieutre B., "Locational Effects of Variability of Injected Power on Total Cost." *Power and Energy Conference at Illinois (PECI), 2015 IEEE.*

References

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