Mishal Assif P K | Resume

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EDUCATION

University of Illinois Urbana-Champaign   **Urbana-Champaign, USA**
Ph.D in Electrical Engineering   *Present*
CPI: 4.00/4.00

Indian Institute of Technology Bombay   **Bombay, India**
B.Tech + M.Tech in Mechanical Engineering   *August 2019*
CPI: 8.63/10.00

PUBLICATIONS

**Scenario approach for minmax optimization in the
nonconvex setting: positive results and caveats**
M. Assif P K, D. Chatterjee, R. Banavar   *2019*
To Appear in SIAM Journal on Optimization. [arXiv preprint]

Measure of quality of finite-dimensional linear systems: A frame-theoretic view
M. Assif P K, M. R. Sheriff, D. Chatterjee   *2019*
Submitted. [arXiv preprint]

A simple proof of the discrete time geometric Pontryagin maximum principle
M. Assif P K, D. Chatterjee, R. Banavar   *2018*
To Appear in Automatica. [arXiv preprint]

Variational collision avoidance on Riemannian manifolds
M. Assif, R. Banavar, A. M. Bloch, M. Camarinha, L. Colombo   *2017*
Proceedings of the IEEE Conference on Decision and Control, 2018. [arXiv preprint]

TEACHING EXPERIENCE

Differential Geometric Methods in Control
Teaching Assistant   *Spring 2018*

Microprocessors and Automatic Control
Teaching Assistant   *Fall 2018*

Microprocessors and Automatic Control Lab
Teaching Assistant   *Spring 2019*

PRESENTATIONS AND TALKS

12th International ICMAT Summer School on Geometry, Mechanics and Control
Universidade de Santiago de Compostela, Spain.   *July 2018*
Short talk on "Geometric Pontryagin Maximum Principle for discrete time optimal control problems."

TECHNICAL EXPERIENCE

Autonomous Underwater Vehicle Team (AUV-IITB)
Software developer, Controls subsystem   *2015 - 2016*
Secured second place at the International AUVSI Robosub competition 2016.