Mishal Assif P K | Resume

Hostel 7, IIT Bombay - Bombay, India

mishalassif.github.io

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2019

2015 - 2016

EDUCATION

University of Illinois Urbana-Champaign

Ph.D in Electrical Engineering

Urbana-Champaign, USA

Present

CPI: -/10.00

Indian Institute of Technology BombayBombay, IndiaB.Tech + M.Tech in Mechanical EngineeringAugust 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

Submitted. [arXiv preprint]

Measure of quality of finite-dimensional linear systems: A frame-theoretic view

M. Assif P K, M. R. Sheriff, D. Chatterjee

Submitted. [arXiv preprint]

2019

A simple proof of the discrete time geometric Pontryagin maximum principle

M. Assif P K, D. Chatterjee, R. Banavar

To Appear in Automatica. [arXiv preprint]

Variational collision avoidance on Riemannian manifolds

M. Assif, R. Banavar, A. M. Bloch, M. Camarinha, L. ColomboProceedings 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

Secured second place at the International AUVSI Robosub competition 2016.