

MOHAMMAD DIVBAND SOORATI

Assistant Professor of AI

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📄 [Personal Homepage](#)



EDUCATION & APPOINTMENTS

Assistant Professor of AI

Swarm Robotics, Human-AI Interaction, Trust in Multi-agent Systems, AI Produce Line, etc.

📅 January 2022 - Now

📍 University of Southampton, UK

Post-doc in Human-Swarm Teaming

Project: Flexible Autonomy in Human-Swarm Interaction

Supervisor: Prof. Sarvapali Ramchurn

📅 August 2019 - December 2021

📍 University of Southampton, UK

Dr. Eng. in Computer Science (Robotics)

Thesis: Adaptivity and Self-Repair in Robot Self-Assembly

Supervisor: Prof. Heiko Hamann

📅 December 2019

📍 University of Lübeck, Germany

M.Sc. in Computer Science

Thesis: The Effect of Fitness Function Design on Performance in Evolutionary Robotics

Supervisor: Prof. Heiko Hamann

📅 April 2015

📍 Paderborn University, Germany

B.Sc. in Computer Engineering (Software)

Thesis: Calculation of Geometric Dilution of Precision using Adaptive Filtering Technique based on Evolutionary Algorithms

Supervisor: Prof. Mohammadreza Mosavi

📅 May 2010

📍 Iran University of Science & Technology, Iran

FUNDINGS & AWARDS

EPSRC AUTONOMY

Co-I

Smart Solutions Towards Cellular-Connected Unmanned Aerial Vehicles System

📅 April 2022 - March 2025

📍 University of Southampton, UK

UKRI Trustworthy Autonomous Systems Hub

Research Co-I & PI of HACs Agile Project

Center for Machine Intelligence, directed by Prof. Dr. Sarvapali Ramchurn

📅 January 2021 - Now

📍 University of Southampton, UK

Alan Turing Fellowship

Post-doctoral researcher

Center for Machine Intelligence, directed by Prof. Dr. Sarvapali Ramchurn

📅 August 2019 - December 2020

📍 University of Southampton, UK

Research Fellowship

PhD student

Service Robotics Group, directed by Prof. Dr.-Ing. Heiko Hamann

📅 April 2017 - March 2019

📍 University of Lübeck, Germany

Research Fellowship

PhD student

Swarm Intelligence Group, directed by Prof. Dr.-Ing. Heiko Hamann

📅 August 2015 - March 2017

📍 Paderborn University, Germany

Research Assistantship

Semantic 3D mapping, intelligent exploration, and navigation for a robot in interior environment

GET Lab, directed by Prof. Bärbel Mertsching

📅 June 2012 - November 2013

📍 Paderborn University, Germany

Best Paper Award

30th Asian Conference on Remote Sensing (ACRS)

📅 October 2010

📍 Beijing, China

SYNERGISTIC ACTIVITIES

👥 Reviewer/PC Member of Springer Journal on Swarm Intelligence & most prestigious conferences in AI & Robotics: AAAI, ICRA, IJCAI, IROS, ADAPTIVE, etc.

👥 Co-organizer of the Alan Turing Workshop on Human-Swarm Teaming
London, 2019

👥 Co-organizer of ASSISIBf (EU-project) Winter School: From bio-inspired to bio-hybrid (robotic) systems
EPFL, Lausanne, 2016

CO-SUPERVISED STUDENT PROJECTS

- Master's Theses:
 - Embedded-Sensor Filaments for a Braided Exoskeleton: Sensing and Shape Recognition, *Bjarne Andresen*, Aug 2018
 - Binary Collective Decision-making with Long-term Adaptation System on Braided Compounds, *Zahra Nouri*, Jan 2017
- Bachelor's Theses:
 - 3D Model Reconstruction of Natural Plants Using 2D Low Resolution Imaging Sensors, *Ricardo Stolze*, Oct 2018
 - Diffusion-limited aggregation on a simulated swarm of robots using BEECLUST algorithm, *Marcus Nachtigall*, Feb 2016
- Student Group Projects:
 - Florentina: Robot-Plant Bio-Hybrid System, a group project with 12 masters students, Apr 2015 - Apr 2016
 - Actuating artificial muscles using NeuroEvolution of Augmented Topologies, 3 students, Jan 2018 - May 2018
 - Phototactic Behaviour using Artificial Muscles, 2 students, Jan 2019 - Jun 2019
- Interns
 - Alexandru Patrick Pop, University of Southampton, Nov 2020 - Now
 - Dimitar Georgiev, University of Southampton, Sep 2019 - Apr 2020
 - James Williams, Northwestern University, Jul 2018 - Sep 2018
 - Marco Mora-Mendoza, Stanford University, Jul 2018 - Sep 2018

PUBLICATIONS

Full list of papers is available in [Google Scholar](#)
