Jamal Ansary

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Google Scholar | Github

EDUCATION

University of Toledo — *January 2018 - July 2021 (Expected)*
M.Sc. in Mechanical Engineering — *OH,USA*

University of Eslamshahr — August 2012 - July 2017
B.Sc. in Electrical Engineering — *Tehran,Iran*

RESEARCH INTERESTS

- Deep learning
- Multi-robot systems
- Computer vision
- Motion planing

EXPERIENCE

University of Toledo — August 2020 - Present
Instructor — *Toledo, OH*

- MET 2320: Materials Science

Course instructor for 52 undergraduate students

University of Toledo — October 2018 - July 2020
Teaching Assistant — *Toledo, OH*

- EET 4450: Automatic Control Systems
- ENGT 3020: Applied Engineering Mathematics
- MET 2350: Advanced Computer Aided Drafting and Design

Head TA for 3 undergraduate courses with more than 40 students in each class

DDas company — September 2016 - Nov 2017
R&D Engineer — *Tehran, Iran*

- I was Part of R&D Team in a startup company which developed Robotic Kits for High School level students

PUBLICATION

- **Ansary, Jamal** et.al. (2020). Swarm of USV, from simulation to real world implementation. International Design Engineering Technical Conferences and Computers and Information in Engineering Conference. Vol. 59179. American Society of Mechanical Engineers, 2020.
- Nemati, Mohammadreza, **Ansary, Jamal**. Machine-learning approaches in covid-19 survival analysis and discharge-time likelihood prediction using clinical data." Patterns 1.5 (2020): 100074
- Dehghanghadikolaei, Amir, **Ansary, Jamal**. (2018) Sol-gel process applications: A mini-review. Proceedings of the Nature Research Society. 2. 10.11605/j.pnrs.201802008.

RESEARCH EXPERIENCE

University of Toledo   Jan 2019 - Present
Mechanism, Mobility, and Multifunctional Design Laboratory (Dr. Brian Trease)   *Toledo, OH*

- Developing Deep learning model based on R-CNN Family for predicting algae bloom in water bodies using Tensor Flow and OpenCV library
- Developing Autonomous collaborative Unmanned Surface-Aerial Vehicles for real time algae detecting and removal
- Modeling and control of Heterogeneous Robot Swarms and USV using LoRa protocol
- Fault Detection and Diagnosis for Drones using Machine Learning
- Mapping of the lake area using Autonomous boats

University of Toledo   January 2018 - December 2018
Design and Joining Laboratory   *Toledo, OH*

- Defects detection in welds using convolutional neural network and support vector machine method
- Developing a numerical modeling of shunting effect using Mathematica

TECHNICAL STRENGTHS

Computer Languages	Python, C++, MATLAB, LaTeX
Data visualization	Tableau , Bokeh, Matplotlib
Deep learning libraries	Tensotflow, tensorflow lite, Scikit-learn, Numpy, Pandas
operating systems	ROS, Ubuntu
Cloud computing platform	Google cloud, Microsoft Azure
CAD/CAM software	Solidworks, Autodesk Inventor, AutoCAD

HONORS AND AWARDS

- Our research in developing Survival Analysis model for COVID-19 patients was covered at **WTOL** news channels

- Advisor for senior project for a group of 7 students at mechanical engineering department at University of Toledo
- ***First place*** at research presentation competition in mechanical engineering department at University of Toledo
- Top 5 finalist in poster presentation competition at University of Toledo
- Semi finalist at 3 minute thesis (3TM) competition at University of Toledo

VOLUNTEER ACTIVITIES

- Communication Secretary of Association of MIME Graduate Students (AMGS) at University of Toledo
- Vice president of Persian student organization at University of Toledo

REFERENCES

Dr. Brian Trease   **Dr. Mehdi Pourazady**
Assistant professor   Associate Professor Emeritus
Mechanical Engineering Department   Mechanical Department
University of Toledo   University of Toledo
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