

Stanford



Mansur Arief

Postdoctoral Scholar, Aeronautics and Astronautics

Bio

BIO

I am a postdoctoral scholar at Stanford Intelligent Systems Lab (SISL). I received my Ph.D. degree in Mechanical Engineering from Carnegie Mellon in 2023 and a master's degree in Industrial and Operations Engineering at the University of Michigan, Ann Arbor. Much of my work combines machine learning and rare-event theories to efficiently simulate rare catastrophic events. The applications of this line of work include the accelerated testing of intelligent systems. Currently, I am working on AI for safety and sustainability projects, which merge efficient simulation frameworks with optimization and decision-making algorithms.

PROFESSIONAL EDUCATION

- Master of Science in Engr, University of Michigan Ann Arbor (2018)
- Doctor of Philosophy, Carnegie Mellon University (2023)
- Bachelor of Engineering, Institut Teknologi Surabaya (2014)
- PhD, Carnegie Mellon University , Mechanical Engineering (2023)
- MSE, University of Michigan, Ann Arbor , Industrial and Operations Engineering (2018)
- BE, Institute Technology of Sepuluh Nopember, Indonesia , Industrial and Systems Engineering (2014)

STANFORD ADVISORS

- Mykel Kochenderfer, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Mykel Kochenderfer, SISL (6/1/2023)

Publications

PUBLICATIONS

- **A Survey on Safety-Critical Driving Scenario Generation-A Methodological Perspective** *IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS*
Ding, W., Xu, C., Arief, M., Lin, H., Li, B., Zhao, D.
2023; 24 (7): 6971-6988
- **An Accelerated Approach to Safely and Efficiently Test Pre-Production Autonomous Vehicles on Public Streets**
Arief, M., Glynn, P., Zhao, D., IEEE
IEEE.2018: 2006-11