Siavash Sabzy

Curriculum Vitae

Research Interests

Astrodynamics
Three-Body Problem

 \square +(00) 98 912 082 4919 \bowtie siavashsabzy@hotmail.com $\underline{\mathbb{R}}^{6}$ ResearchGate $\underline{\mathbf{O}}$ Github Date of Birth: Sep, 14, 1993



Guidance, Navigation and Control (GNC)
Machine Learning

Education

Master of Science
 Iran University of Science and Technology, Tehran, IR

Satellite Technology Engineering Sep. 2017 - Jan. 2020

Thesis: "Coupled Orbit and Attitude Dynamics of a Spacecraft in the Ecliptic Restricted Three Body Problem"

Bachelor of Science
 Shahid Rajaee University, Tehran, IR

Mechanical Engineering Jan. 2013 - Jan. 2017

Thesis: "Vibration Analysis of a Rotary Shaft with Rigid or Flexible Bearings by Considering the Rotor Gyroscopic Effects"

Work Experiences

O Pishtazan Sanat Faza Pooyan Company - Tehran, Iran

Researcher, Nov. 2021 - Jun. 2025

- Software Developer
- Geodesy Expert
- O Ministry of Education, Aligodarz District Lorestan, Iran

Teacher, Feb. 2013 - Jun. 2020

- Automotive Gasoline Engines Workshop
- Automotive electrical workshop

Publications

Journals:

- Siavash Sabzy, Majid Bakhtiari, Elyas Rashno "Distinguishing Periodic Attitude Motions from Poincaré Sections Using a Compatible Clustering Method", Nonlinear Dynamics, Springer.
- Siavash Sabzy, Kamran Daneshjou, Majid Bakhtiari "Periodic attitude motions along planar orbits in the elliptic restricted three-body problem", Advances in Space Research, Elsevier.
- Majid Bakhtiari, Ehsan Abbasali, Siavash Sabzy, Amirreza Kosari "Natural Coupled Orbit-Attitude Periodic Motions in the Perturbed-CRTBP including Radiated Primary and Oblate Secondary", Astrodynamics journal, Springer.

Online Courses

- Machine Learning offered by Stanford University
- Reinforcement Learning Specialization offered by University of Alberta
- O Spacecraft Dynamics and Control Specialization offered by University of Colorado Boulder

Language Skills

English Fluent

TOEFL: 104, (R:27, L:30, S:24, W:23)
- **Appointment Number:** 7574603249657141

- Test Date: March 02, 2024

Persian Native

Programming and Software Skills

Programming Languages

- Matlab
- O Python: Numpy, conda-orekit, pyqt5, pymoo, pandas
- O Java: JavaFx, orekit

Software

- O GMAT: General Mission Analysis Tool
- O SPENVIS: Space Environment Information System
- o ESA MASTER tool
- O ESA DRAMA tool

General Softwares

- o Git
- LaTeX
- Microsoft Office

References

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O Dr. Meisam farajollahi

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