

# Hao Chen

## CONTACT INFORMATION

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Assistant Professor  
School of Systems & Enterprises  
Stevens Institute of Technology  
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## ACADEMIC APPOINTMENTS

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### Stevens Institute of Technology, Hoboken NJ

Assistant Professor, Aug. 2021 - Present

### Georgia Institute of Technology, Atlanta GA

Postdoctoral Fellow, Jul. 2021 - Aug. 2021

## EDUCATION

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### Georgia Institute of Technology, Atlanta GA

May 2021

#### Ph.D. in Aerospace Engineering

Thesis: Interdisciplinary Space Logistics Optimization Framework for Large-Scale Space Exploration

Committee: Prof. Koki Ho (Chair), Prof. E. Glenn Lightsey, Prof. Brian Gunter, Prof. Christopher Carr, Prof. Harrison M. Kim

Major/Minor: Aerospace Engineering (Major), Mathematics (Minor)

### University of Illinois Urbana-Champaign, Urbana IL

Aug. 2016

#### M.S. in Aerospace Engineering

### Sun Yat-sen University, Guangzhou China

Jun. 2014

#### B.S. in Theoretical and Applied Mechanics

## AWARDS/SCHOLARSHIPS

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- **SSE Dean Research Incentive Award**, Stevens Institute of Technology **2023**
- **Luigi G. Napolitano Award**, International Astronautical Congress **2019**
  - Conferred every year to a young scientist who has significantly contributed to the advancement of the aerospace science.
- **Mavis Future Faculty Fellowship (MF3)**, University of Illinois Urbana-Champaign **2018-2019**
- **Warren W. Yee Memorial Fellowship**, University of Illinois Urbana-Champaign **2017**
- **The First Prize Scholarship**, Sun Yat-sen University **2012**

**Book Chapters**

- [B1] K. Ho, **H. Chen**, and T. Sarton du Jonchay, "Chapter 16: Mathematical Methods for Space Mission Planning and Architecture Design," in *The Planning and Execution of Human Missions to the Moon and Mars*, ed. Michelle Poliskie (Reston, VA: American Institute of Aeronautics & Ast., 2023), pp. 597-624.

**Submitted Journal Articles**

- H. Lee, D. Rogers, B. Pearl, **H. Chen**, and K. Ho, "Deterministic Multi-stage Constellation Reconfiguration Using Integer Linear Programming and Sequential Decision-Making Methods," *Journal of Spacecraft and Rockets*. (Under Review)

**Journal Articles**

- [J1] Y. Takubo, **H. Chen**, and K. Ho, "[Hierarchical Reinforcement Learning Framework for Stochastic Spaceflight Campaign Design](#)," *Journal of Spacecraft and Rockets*, Vol. 59, No. 2, pp. 421-433, 2022.
- [J2] **H. Chen**, M. Ornik, and K. Ho, "[Space Exploration Architecture and Design Framework for Commercialization](#)," *Journal of Spacecraft and Rockets*, Vol. 59, No. 2, pp. 538-551, 2022.
- [J3] T. Sarton du Jonchay, **H. Chen**, M. Isaji, Y. Shimane, and K. Ho, "[On-Orbit Servicing Optimization Framework with High- and Low-Thrust Propulsion Tradeoff](#)," *Journal of Spacecraft and Rockets*, Vol. 59, No.1, pp. 33-48, 2022.
- [J4] **H. Chen**, B. Gardner, P. Grogan, and K. Ho, "[Flexibility Management for Space Logistics via Decision Rules](#)," *Journal of Spacecraft and Rockets*, Vol. 58, No. 5, pp. 1314-1324, 2021.
- [J5] T. Sarton du Jonchay, **H. Chen**, O. Gunasekara, and K. Ho, "[Framework for Modeling and Optimization of On-Orbit Servicing Operations Under Demand Uncertainties](#)," *Journal of Spacecraft and Rockets*, Vol. 58, No. 4, pp. 1157-1173, 2021.
- [J6] **H. Chen**, T. Sarton du Jonchay, L. Hou, and K. Ho, "[Multifidelity Space Mission Planning and Infrastructure Design Framework for Space Resource Logistics](#)," *Journal of Spacecraft and Rockets*, Vol. 58, No. 2, pp. 538-551, 2021.
- [J7] T. Sarton du Jonchay, **H. Chen**, Anna Wieger, Zoe Szajnfarber, and K. Ho, "[Space Architecture Design for Commercial Suitability: A Case Study in In-Situ Resource Utilization Systems](#)," *Acta Astronautica*, Vol. 175, pp. 45-50, 2020.
- [J8] **H. Chen**, T. Sarton du Jonchay, L. Hou, and K. Ho, "[Integrated In-Situ Resource Utilization System Design and Logistics for Mars Exploration](#)," *Acta Astronautica*, Vol. 170, pp. 80-92, 2020.
- [J9] **H. Chen**, H. Lee, and K. Ho, "[Space Transportation System and Mission Planning for Regular Interplanetary Missions](#)," *Journal of Spacecraft and Rockets*, Vol. 56, No. 1, pp. 12-20, 2019.
- [J10] Z. Chen, **H. Chen**, and K. Ho, "[Analytical Optimization Methods for Space Logistics](#)," *Journal of Spacecraft and Rockets*, Vol. 55, No. 6, pp. 1582-1586, 2018.
- [J11] **H. Chen** and K. Ho, "[Integrated Space Logistics Mission Planning and Spacecraft Design with Mixed-Integer Nonlinear Programming](#)," *Journal of Spacecraft and Rockets*, Vol. 55, No. 2, pp. 365-381, 2018.

**Conference Proceedings (Selected)**

- [C1] **A. Abdul-Hamid** and **H. Chen**, "Understanding System Level Impacts of Orbital Debris Management Using Empirical Dynamic Modeling," *2024 AIAA Science and Technology Forum and Exposition (AIAA SciTech Forum)*, Orlando, FL, Jan. 2024.
- [C2] **C. Chullen**, **I. Pena**, and **H. Chen**, "Technology Infusion in Spacesuits – A Comparative System Analysis," *20<sup>th</sup> International Conference on Systems Engineering Research (CSER 2023)*, Hoboken, NJ, Mar. 2023.

- [C3] **C. Chullen, I. Pena, K. Ganesan, and H. Chen**, “Advanced Technology Infusion into Spacesuit Systems,” *ASCEND 2022*, Las Vegas, NV & Virtual, no. AIAA 2022-4351, Oct. 2022.
- [C4] H. Lee, **H. Chen**, and K. Ho, “Maximizing Observation Throughput via Multi-Stage Satellite Constellation Reconfiguration,” *2022 AAS/AIAA Astrodynamics Specialist Conference*, Charlotte, NC, AAS 22-825, Aug. 2022.
- [C5] **H. Chen**, and H. Lee, “Distributed Space Resource Logistics System Optimization under Economies of Scale,” *ASCEND 2021*, Las Vegas, NV & Virtual, no. AIAA 2021-4079, Nov. 2021.
- [C6] T. Sarton du Jonchay, Y. Shimane, M. Isaji, **H. Chen**, and K. Ho, “On-Orbit Servicing Logistics Framework Generalized to the Multi-Orbit Case,” *AAS/AIAA Astrodynamics Specialist Conference*, Online, Aug. 2021.
- [C7] **H. Chen**, B. Gardner, P. Grogan, and K. Ho, “Flexibility Management for Space Logistics Through Decision Rules,” *ASCEND 2020*, AIAA-2020-4187, Online, Nov. 2020.
- [C8] Y. Takubo, **H. Chen**, and K. Ho, “Performance Analysis of Hierarchical Reinforcement Learning Framework for Stochastic Space Logistics,” *ASCEND 2020*, AIAA-2020-4230, Online, Nov. 2020.
- [C9] T. Sarton du Jonchay, **H. Chen**, O. Gunasekara, and K. Ho, “Rolling Horizon Optimization Framework for the Scheduling of On-Orbit Servicing Operations under Servicing Demand Uncertainties,” *ASCEND 2020*, AIAA-2020-4131, Online, Nov. 2020.
- [C10] K. Ikeya, H. Sakamoto, **H. Chen**, and K. Ho, “Integrated Orbit Design and Network-Based Optimization of Interplanetary Mission Architectures,” *AIAA SciTech Forum 2020*, AIAA 2020-0072, Orlando, FL, Jan. 2020.
- [C11] **H. Chen**, M. Ornik, and K. Ho, “Incentive Design for Commercial Participation in Space Logistics Infrastructure Development and Deployment,” *70TH International Astronautical Congress*, Washington D.C., United States, IAC-19,D3,1,6,x51353, Oct. 2019.
- [C12] **H. Chen**, T. Sarton du Jonchay, L. Hou, and K. Ho, “Space Resource Logistics for Human Exploration to Mars,” *70TH International Astronautical Congress*, Washington D.C., United States, IAC-19,A5,2,4,x49279, Oct. 2019.
- [C13] T. Sarton du Jonchay, **H. Chen**, A. Wiegner, Z. Szajnarfarber, and K. Ho, “Space System Architecting for Commercial Suitability: A Case Study in Cislunar Space Transportation,” *70TH International Astronautical Congress*, Washington D.C., United States, IAC-19,D3,4,4,x49785, Oct. 2019.
- [C14] A. Wiegner, **H. Chen**, T. Sarton du Jonchay, K. Ho, and Z. Szajnarfarber, “An Approach to Endogenously Incentivizing Commercial Participation through System Architecture Choices,” *70TH International Astronautical Congress*, Washington D.C., United States, IAC-19,D3,1,4,x52667, Oct. 2019.
- [C15] **H. Chen**, T. Sarton du Jonchay, L. Hou, and K. Ho, “Multi-Fidelity Space Mission Planning and Space Infrastructure Design Framework for Space Resource Logistics,” *AIAA Propulsion & Energy Forum 2019*, Indianapolis, IN, no. AIAA 2019-4134, Sep. 2019.
- [C16] **H. Chen** and K. Ho, “Hierarchical Reinforcement Learning Framework for Space Exploration Campaign Design,” *AIAA Propulsion & Energy Forum 2019*, Indianapolis, IN, no. AIAA 2019-4135, Sep. 2019.
- [C17] **H. Chen**, A. Lapin, T. Ukai, C. Lei, and K. Ho, “Optimization for Large-Scale Multi-Mission Space Campaign Design by Approximate Dynamic Programming,” *AIAA SPACE 2018 Conference and Exposition*, Orlando, FL, no. AIAA 2018-5287, Sep. 2018.
- [C18] **H. Chen**, and K. Ho, “Multi-Actor Analysis Framework for Space Architecture Commercialization,” *AIAA SPACE 2018 Conference and Exposition*, Orlando, FL, no. AIAA 2018-5410, Sep. 2018.
- [C19] **H. Chen**, K. Ho, B. Gardner, and P. Grogan, “Built-in Flexibility for Space Logistics Mission Planning and Spacecraft Design,” *AIAA SPACE 2017 Conference and Exposition*, Orlando, FL, no. AIAA 2017-5348, Sep. 2017.
- [C20] **H. Chen**, H. Lee, and K. Ho, “Space Transportation System and Infrastructure Design for Regular Interplanetary Cargo Missions,” *AIAA SPACE 2017 Conference and Exposition*, Orlando, FL, no. AIAA 2017-5197, Sep. 2017.

- [C21] Z. Chen, **H. Chen**, and K. Ho, “Analytical model of Space Infrastructure Staged Deployment Strategy in Space Logistics,” *AIAA SPACE 2017 Conference and Exposition*, Orlando, FL, no. AIAA 2017-5349, Sep. 2017.
- [C22] K. Ho, **H. Chen**, and H. M. Kim, “Value of Bootstrapping Staged Deployment of Infrastructure: Case Study in Space Infrastructure Deployment,” *ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference*, Cleveland, OH, no. DETC2017-67610, Aug. 2017.
- [C23] **H. Chen**, and K. Ho, “Integrated Space Mission Planning and In-Orbit Infrastructure Design with Mixed-Integer Programming,” *AIAA SPACE 2016 Conference and Exposition*, Long Beach, CA, no. AIAA 2016-5309, Sep. 2016.

### Magazine Articles

- [M1] **H. Chen**, and K. Ho, “Space Logistics - A Burgeoning Commercial Market,” *AIAA Aerospace America*, Dec. 2023.
- [M2] **H. Chen**, and K. Ho, “Development of On-Orbit Servicing, Assembly and Manufacturing Creates New Capabilities in Spacefaring Operations,” *AIAA Aerospace America*, Dec. 2022.
- [M3] **H. Chen**, and K. Ho, “Gateway Leads the Era of Deep Space Infrastructure Development,” *AIAA Aerospace America*, Dec. 2021.

### Invited Conference/Workshop Presentations

- [I1] **H. Chen**, “The Grand Challenge of Space Logistics for Space Stations, Moon, and Mars,” *Space Education & Strategic Applications 2023 Conference*, Online, Sep. 2023.
- [I2] **H. Chen**, and K. Ho, “Time-expanded Network for Long-Term Human Space Mission Planning,” *INFORMS Annual Meeting*, National Harbor, MD, Nov. 2020.

### Conference Presentations

- [P1] “Flexibility Management for Space Logistics Through Decision Rules,” at *ASCEND 2020*, Online, Nov. 2020.
- [P2] “Incentive Design for Commercial Participation in Space Logistics Infrastructure Development and Deployment,” at *70TH International Astronautical Congress*, Washington D.C., United States, Oct. 2019.
- [P3] “Space Resource Logistics for Human Exploration to Mars,” at *70TH International Astronautical Congress*, Washington D.C., United States, Oct. 2019.
- [P4] “Multi-Fidelity Space Mission Planning and Space Infrastructure Design Framework for Space Resource Logistics,” at *AIAA Propulsion & Energy Forum 2019*, Indianapolis, IN, Sep. 2019.
- [P5] “Hierarchical Reinforcement Learning Framework for Space Exploration Campaign Design,” at *AIAA Propulsion & Energy Forum 2019*, Indianapolis, IN, Sep. 2019.
- [P6] “Optimization for Large-Scale Multi-Mission Space Campaign Design by Approximate Dynamic Programming,” at *AIAA SPACE 2018 Conference and Exposition*, Orlando, FL, Sep. 2018.
- [P7] “Multi-Actor Analysis Framework for Space Architecture Commercialization,” at *AIAA SPACE 2018 Conference and Exposition*, Orlando, FL, Sep. 2018.
- [P8] “Integrated Space Mission Planning and In-Orbit Infrastructure Design with Mixed-Integer Programming,” at *AIAA SPACE 2016 Conference and Exposition*, Long Beach, CA, Sep. 2016.

### Other Presentations

- [P9] **H. Chen**, T. Sarton du Jonchay, L. Hou, and K. Ho, “Integrated Analysis Framework for Space Propellant Logistics: Production, Storage, and Transportation,” Lunar ISRU Workshop, Columbia, MD, Jul. 2019.
- [P10] K. Ho and **H. Chen**, “Space Transportation Network Analysis for CisLunar Space Economy with Lunar Resources,” Annual Meeting of the Lunar Exploration Analysis Group, Columbia, MD, Oct. 2017.
- [P11] T. Ukai, **H. Chen**, and K. Ho, “Optimization for Campaign-level Human Space Mission Design,” *INFORMS Annual Meeting*, Houston, TX, Oct. 2017.

## AWARDED RESEARCH FUNDING

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Total awarded as a PI: **\$346K**. (My total share: **\$337K**)

### External grant

[G1] Space Logistics Analysis and Incentive Design for Commercialization of Orbital Debris Remediation

- Role: **PI**
- Co-PI (WVU PI): Hang Woon Lee
- Source: *NASA*
- Period of Performance: **Oct. 2023 – Oct. 2024**.
- Amount: **\$105,916**
- Chen's share: **92% (\$97,357)**

[G2] ERI: Representations of Complex Engineering Systems via Technology Recursion and Renormalization Group

- Role: **sole PI**
- Source: *NSF*
- Period of Performance: **Sep. 2023 – Aug. 2025**.
- Amount: **\$199,997**
- Chen's share: **100%**

### Internal grant

[G3] Real-time Brain State and Wellness Assessment Framework based on Multimodal EEG Platform

- Role: **PI**
- Co-I (Stevens): Feng Liu and Zhongyuan (Annie) Yu
- Source: *Stevens Institute of Technology (SSE Dean's Research Incentive Award)*
- Period of Performance: **Feb. 2023 – Feb. 2024**.
- Amount: **\$39,955**

## POSTDOC/STUDENT ADVISING

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- Ph.D. Thesis, Supervisor

### In Progress

- **Cinda Chullen** (In Progress)
- **Asaad Abdul-Hamid** (In Progress)
- **Amiratabak Bahengam** (In Progress)

- Ph.D. Thesis, Committee Member

### Completed

- **Josue I. Tapia**, "A Conceptual Mission Engineering Framework for Evaluating the Performance of Precipitation Observing Missions," Ph.D., Stevens Institute of Technology, 2023 (Advisor: Paul Grogan).

- M.S. Thesis, Supervisor

### In Progress

- **Evangelia Gkaravela** (In Progress)
- **Jaime Bardaji** (In Progress)

- M.S. Thesis, Reader

### Completed

- **Iser Pena**, "Improving Satellite-Based Convective Storm Observations: An Operational Policy Based on Static Historical Data," M.S., Stevens Institute of Technology, 2023 (Advisor: Paul Grogan)

- M.S. Non-Thesis (Special Problem Advisee)

### In Progress

- **Ronnie Melao**, M.S. (Non-Thesis; Special Problem); at Stevens, 2024.
- **Albert Tan**, M.S. (Non-Thesis; Special Problem); at Stevens, 2024.

### Completed

- **Brooke Cole**, M.S. (Non-Thesis; Special Problem); at Stevens, 2022.
- **Matthew Crisman**, M.S. (Non-Thesis; Special Problem); at Stevens, 2022.
- **Nestor Mercado**, M.S. (Non-Thesis; Special Problem); at Stevens, 2022.
- **Iser Pena**, M.S. (Special Problem); at Stevens, 2022.
- **Harrup Singh**, M.S. (Non-Thesis; Special Problem); at Stevens, 2022.
- **Benjamin Stanley**, M.S. (Non-Thesis; Special Problem); at Stevens, 2022.
- **Jorge Alvarez-Jimenez**, M.S. (Non-Thesis; Special Problem); at Stevens, 2022.
- **Ryan Burns**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- **Keishaun Griffin**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- **Alan Hairston**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- **Christopher Rovatsos**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- **Siddharth Lokhande**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- **Larissa Cottrill**, Graduate Certificate (Special Problem); at Stevens, 2023.
- **Sean Duffy**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- **Julia Dresser**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- **Ryan Poust**, M.S. (Non-Thesis; Special Problem); at Stevens, 2023.
- Undergraduate Students (Independent Study Advisee/Funded Student Researcher)
  - **Kaushikk Ganesan**, at the Stevens Institute of Technology, May 2022 – Aug. 2022
  - **Christina Longo**, at the Stevens Institute of Technology, May 2023 – Present
- Other
  - **Iser Pena**, Research Assistant Staff, Stevens Institute of Technology, Jun. 2023 – Present

## **TEACHING EXPERIENCE**

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### **Stevens Institute of Technology, Hoboken NJ**

#### *Instructor*

EM/ISE 322 Engineering Design VI (Undergraduate Level)	<b>Spring 2024</b>
EM/ISE 424 Engineering Design VIII (Undergraduate Level, Senior Design)	<b>Spring 2023, Spring 2024</b>
EM/ISE 423 Engineering Design VII (Undergraduate Level, Senior Design)	<b>Fall 2022, Fall 2023</b>
SYS 640 System Supportability and Logistics (Graduate Level)	<b>Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023</b>

### **Georgia Institute of Technology, Atlanta GA**

#### *Graduate Teaching assistant*

AE 6353 Orbital Mechanics (Graduate Level)	<b>Fall 2020</b>
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### **University of Illinois Urbana-Champaign, Urbana IL**

#### *Graduate Teaching assistant*

AE 403 Spacecraft Attitude Control (Undergraduate/Graduate Level)	<b>Spring 2017, Spring 2019</b>
AE 352 Aerospace Dynamical Systems (Undergraduate Level)	<b>Fall 2017</b>

## **EDUCATIONAL INNOVATIONS AND CONTRIBUTIONS**

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- Founding Faculty Advisor, Students for the Exploration and Development of Space (SEDS) at Stevens Institute of Technology, Sep. 2022 – Present

- Refined and improved course materials for EM and ISE senior design class (EM/ISE 423/424 Engineering Design VII/VIII) at Stevens Institute of Technology; the newly developed senior design course by Dr. Chen became highly interdisciplinary engaging 10-20 senior students from CHE, CPE, EE, EN, and ME each year. One senior design team won the First Prize in 2023 Ansary Entrepreneurship Competition.
- Faculty advisor for a student team at NASA RASC-AL Design Competition, Stevens Institute of Technology, 2022 and 2023.

## SERVICES

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### University service

- Graduate Curriculum Committee, Stevens Institute of Technology, 2022 - Present.

### School/Department service

- Tenured/Tenure-track Faculty Search Committee, School of Systems and Enterprises, 2023 - Present.
- Graduate Curriculum Committee, School of Systems and Enterprises, 2022 - Present.
- EM/ISE Academic Committee, School of Systems and Enterprises, 2021 - Present.

### Society Offices, Activities, and Membership

- AIAA Space Logistics Technical Committee
  - Vice Chair (effective May 2024).
  - Chair of Conference Subcommittee, 2021-2024.
  - Member, 2018-present.
- Young Professional, American Institute of Aeronautics and Astronautics (AIAA)
- Member, International Council on Systems Engineering (INCOSE)
- Member, American Society of Mechanical Engineers (ASME)
- Member, Institute of Electrical and Electronics Engineers (IEEE)

### Organization and Chairmanship of Technical Sessions, Workshops, and Conferences

- AIAA ASCEND Technical Program
  - Deputy Technical Program Chair, Space Exploration and Infrastructure, 2023-present.
  - Space Logistics Topic Admin, 2021-2022.
- AIAA SciTech 2024 Forum and Exposition, Orlando, FL, Jan. 2024
  - Session Chair, EXPL-12: Humans in Space Logistics, Medical issues, Bio-Research
  - Session Chair, EXPL-23: Lunar/Mars Exploration - ISRU Operations
  - Session Chair, EXPL-26: Space Logistics (Joint Session with Space Logistics TC)
- 20<sup>th</sup> International Conference on Systems Engineering Research (CSER 2023), Hoboken, NJ, Mar. 2023
  - Technical Committee Co-Chair, Session Organizer
  - Session Chair, Systems Modularity
- AIAA SciTech 2023 Forum and Exposition, National Harbor, MD & Online, Jan. 2023
  - Session Chair, EXPL-18: Robotic Precursor and Human Exploration Missions
  - Session Chair, EXPL-21: Planetary Surface Interaction with Landing and Ground Robotics Systems
- ASCEND 2021 (AIAA) Conference, Las Vegas, NV & Online, Nov. 2021
  - Session Organizer.
  - Session Chair, SLS-01: Space Logistics Campaign Planning
  - Session Chair, SLS-02: Space Logistics Design for Commonality and Affordability
  - Session Chair, SLS-03: Resilient Architectures and Space Logistics

### **Technical Journal or Conference Referee Activities**

- Review Coordinator & Reviewer, AIAA ASCEND 2024 Conference, Las Vegas, NV.
- Reviewer, AIAA SciTech 2024 Forum and Exposition, Orlando, FL.
- Reviewer, AIAA SciTech 2023 Forum and Exposition, National Harbor, MD & Online.
- Review Coordinator, 20<sup>th</sup> International Conference on Systems Engineering Research (CSER 2023), Hoboken, NJ.
- Review Coordinator & Reviewer, ASCEND 2021 (AIAA) Conference, Las Vegas, NV & Online.
- Reviewer, *Acta Astronautica*, 2022, 2023
- Reviewer, *Journal of Spacecraft and Rockets*, 2018, 2021, 2022, 2023, 2024
- Reviewer, *Advances in Space Research*, 2024
- Reviewer, *Journal of Engineering Design*, 2024
- Reviewer, *Aerospace*, 2021, 2022, 2023
- Reviewer, *Mathematics*, 2022, 2023
- Reviewer, *Mathematical and Computational Applications*, 2022
- Reviewer, *Remote Sensing*, 2023
- Reviewer, *International Journal of Aerospace Engineering*, 2023, 2024
- Reviewer, *IEEE Transactions on Aerospace and Electronic Systems*, 2021, 2022
- Reviewer, *Transactions of the JSASS / Aerospace Technology Japan*, 2019, 2020, 2022, 2023

### **Proposal Panels and Reviews**

- Fellow, National Science Foundation (NSF) CMMI's Game Changer Academies, 2022
- External Proposal Review Panel, Sandooq Al Watan (SW), Abu Dhabi, UAE, 2022 - Present.
- NSF Proposal Review Panel, 2024