DEEPAK PRAKASH KUMAR

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EDUCATION

Ph.D. in Mechanical Engineering Aug 2021 - Aug 2025
Thesis: Optimal Motion Planning for a Curvature-Constrained Vehicle in 2D and 3D
Chair: Prof. Swaroop Darbha; Co-Advisor: Prof. Sivakumar Rathinam
Texas A&M University, College Station, **CGPA: 4.0/4.0**

B.Tech in Engineering Design + M.Tech in Automotive Engineering Jul 2015 - Jul 2020
Thesis: Optimization of Dual Motor Coupled Drive Configurations for an Electric Bus Powertrain
Chair: Prof. C. S. Shankar Ram
Indian Institute of Technology Madras, Chennai, **CGPA: 9.55/10** (1^{st} in class out of 54 students)

LEADERSHIP

Team Captain - SAE AutoDrive Challenge Aug 2023 - Aug 2025
Autonomous Car Competition sponsored by General Motors and Society of Automotive Engineers (SAE)

- Developed a **Level 4 autonomous car, a Chevrolet Bolt**, capable of handling complex scenarios such as navigating through intersections, obeying traffic rules, and avoiding obstacles.
- **Implemented algorithms for vehicle controls, path planning, and CAN bus using ROS, Python, and C++ in Ubuntu** on the Chevrolet Bolt, and tested algorithms at Rellis campus and MCity.
- Planned the behavior of the vehicle using **high-definition map** of testing environments and **perception data** from camera and lidar to navigate in environments with static and dynamic obstacles, traffic lights, and obstructed lanes and roads.
- Controlled the vehicle to track the path obtained from the planner using a fixed-structure controller **within a deviation of 0.2 m** and benchmarked it against the popular Stanley controller.
- Managed and mentored **50 students** in various teams working on static challenges, such as simulation (MathWorks) challenge, leadership challenge (to track timelines and progress of team), and dynamic challenges, such as obstacle detection and navigation of the car.
- Led team to place among the **top three in all six static challenges**, finish **second overall in static challenges**, **second overall in dynamic challenges**, and **finish second overall** in 2023-2024.
- Led team to place first, second, and third in three different static challenges, finish **second overall in static challenges**, place third in two dynamic challenges, and **finish third overall** in 2024-2025.
- Promotional video about the competition and recent experiment conducted are available here: Promotional video, recent experiment. (More videos are available on my website.)

NEWS ARTICLE

- "Driving the Future", Article written about the accomplishments of the SAE AutoDrive team that I led in 2023-2024, Link to the article.

PROJECTS

Physical AI for Humanoid Construction Robots for Safe Human-Robot Collaboration Oct 2025 - present
Industrial collaboration with Genova construction

- Leading collaboration with an industry partner on the development and deployment of safe AI architectures for human-humanoid robot collaboration in construction environments to curb rising housing prices and labor shortage.
- Led discussions and formulation of goals of the project with Genova construction during the month of October, which culminated in them agreeing to sign a two-year project with the Center for Resilient Autonomous Systems at UC Irvine.
- Formulated the initial pipeline for reconstruction of real-world construction environment in Isaac Sim, training of reinforcement-learning algorithms in Isaac Sim, and deployment through ROS on the Unitree G1 Edu.

Resilient Autonomous Off-Road Navigation Oct 2025 - present
Collaboration with Ground Vehicle Systems Center (GVSC) (under ARMY DEVCOM)

- Mentoring a Ph.D. candidate on developing novel AI architectures for off-road vehicles, building on a foundational model to enable off-road autonomous vehicles to operate reliably in a priori unknown environments.

Safe Physical AI for Multiple Ground-Air Collaboration Aug 2025 - present
Collaboration with the Air Force Research Laboratory, Autonomy, Navigation, and Control Branch, Eglin

- Formulated a novel architecture for an autonomous agent to navigate in an unknown and uncertain environment, building on vision language models to take human operators' commands and vision data, and integrating model-based algorithms to guarantee safety.
- Instructing the vision language model to understand the dynamics of objects in the environments by training it to predict the trajectories of dynamic obstacles and generate safe paths avoiding all obstacles using synthetic data from NVIDIA Isaac Sim and publicly available datasets.
- Formulated an initial architecture building on the single-agent architecture for multiple ground and aerial agents to collaborate to accomplish a given mission.

Motion Planning in 3D for an Autonomous Aerial Vehicle and Aircraft Jan 2022 - Aug 2025
Collaboration with the Air Force Research Laboratory, Autonomous Control Branch

- Modeled and derived the least-distance paths for an autonomous high-speed aircraft or hypersonic vehicle moving at a constant altitude over the Earth (modeled as a sphere) with a minimum turning radius to travel from one location and orientation to another.
- Proved that the optimal path is of type CGC, CCC, or a degenerate path when the vehicle's turning radius relative to the sphere is within $\frac{1}{2}$ using Pontryagin's Maximum Principle. Here, $C = L, R$ denotes a tight left or right turn of minimum turning radius, and G denotes a great circular arc.
- Additionally showed that when the vehicle's turning radius relative to the sphere is between $\frac{1}{2}$ and $\frac{1}{\sqrt{2}}$, $CCCC$ must be considered. Further showed that $CC_\pi C$ and $CCCCC$ must be considered when vehicle's turning radius relative to sphere is between $\frac{1}{\sqrt{2}}$ and $\frac{\sqrt{3}}{2}$.
- Tackled a variant of the sphere problem, wherein the final orientation of the vehicle is free, a problem of application for a vehicle desiring to reach a prescribed final location. Proved that the optimal path is of type CG or CC or a degenerate path when the vehicle's turning radius relative to the sphere is less than or equal to $\frac{\sqrt{3}}{2}$.
- Developed and implemented a heuristic in Python for planning the least-distance path for aerial vehicles in 3D considering pitch rate and yaw rate constraints to travel from one configuration to another using the sphere problem results.
- Published findings in IEEE Control Systems Letters, IEEE Indian Control Conference, AIAA Journal of Guidance, Control, and Dynamics, and submitted two papers to IEEE Transactions on Robotics (one is under revision).

Routing Fleet of Autonomous Drones for Classifying Unknown Targets Jun 2023 – Sep 2024
Collaboration with the U.S. Naval Research Laboratory

- Formulated an optimization problem for routing single and multiple drones (aerial vehicles) to visit a specified set of points of interest and determine the time spent by each drone at each of its targets to maximize information gain. The drones capture photos/videos and provide the information back to a **classifier or a human-in-the-loop**.
- Proved that the single-vehicle problem can be solved to optimality by decoupling the routing problem and the continuous optimization problem (to obtain time spent at each target). Implemented algorithms to solve the two decoupled problems to optimality in Julia, hence solving the single-vehicle case to optimality.
- Designed and implemented a fast heuristic based on variable neighborhood search in **Julia** to allocate targets, plan paths, and obtain the time spent at each target for the multiple-vehicle case, solving problems with up to 500 targets and 20 vehicles within 10 minutes.
- **Published findings in the Journal of Intelligent & Robotic Systems**.

Routing Multiple Autonomous Drones to minimize mission time Apr 2022 – Sep 2024
Collaboration with the Air Force Research Laboratory, Sensing Management Branch

- Developed fast heuristics to generate high-quality solutions to allocate tasks and plan the path of **multiple autonomous drones with different speeds and sensing capability** to visit a set of targets in the least mission time.
- Implemented 34 variations in the heuristic based on variable neighborhood search in Python, benchmarked against optimal solution obtained by solving a mixed-integer linear program in Python with Gurobi on 128 instances, and identified two best variations based on the best objective value or best computation time.
- Demonstrated heuristic with the best objective value matched or outperformed a benchmarking heuristic on 112 instances, and heuristic with best computation time produced high-quality solution within 10 minutes for instances as large as 500 targets and 20 vehicles.
- **Published** and presented initial results at the **AIAA SciTech Forum 2024** and preparing extended results for a journal article submission.

Motion Planning for a Fixed-Wing UAV with Hardware Damage May 2022 – Jan 2023
Collaboration with the Air Force Research Laboratory, Autonomous Control Branch

- Modeled motion planning for a fixed-wing UAV with asymmetric turning radii and turn penalties due to hardware damage to travel between given locations and heading angles with minimum time-fuel cost.
- Proved the optimal path is of type $CSCSC$ or a degenerate path of the same (where C denotes a left or right turn, and S denotes a straight line segment), yielding 21 paths, using Pontryagin's Minimum Principle.
- Demonstrated that obtained paths reduce cost by up to 30% compared to paths from similar problems in the literature through extensive numerical simulations in Python.
- **Published in IEEE Robotics and Automation Letters and presented at IEEE ICRA 2024**.

RESEARCH EXPERIENCE

Postdoctoral Scholar - Center for Resilient Autonomous Systems Aug 2025 - present

- Working with Prof. Pramod Khargonekar, Prof. Magnus Egerstedt, and Prof. Mohammad Al Faruque on reinforcement learning and foundational models for autonomous off-road vehicles, multi-agent systems, and humanoid robots.

Research Assistant - Systems, Controls, and Optimization Laboratory Jan 2022 - Aug 2025

- Worked with Prof. Swaroop Darbha in the Systems, Control and Optimization Laboratory at Texas A&M University and collaborating with Air Force Research Laboratory and U. S. Naval Research Laboratory on research problems in trajectory planning and task allocation for autonomous ground, aerial, and space vehicles.

Project Officer - Analysis of Wheel Misalignment in Single Unit Trucks Aug 2020 - June 2021
Industrial collaboration with Michelin India
Guided by Prof. C. S. Shankar Ram, IIT Madras

- Derived model for a single unit two-axle and three-axle truck including wheel misalignment, such as the toe and thrust angle misalignments, using rigid body kinematics and dynamics.
- Implemented model in MATLAB and corroborated with IPG TruckMaker, showing that 95% of randomly generated misalignment scenarios could be detected using on-vehicle measurements.
- Published findings in a conference paper in IEEE ITSC 2022.

Student Researcher/Research Intern - Powertrain Design of an Electric Bus Nov 2017 - May 2019
Industrial collaboration with BHEL, Trichy and BHEL, Chennai
Guided by Prof. C. S. Shankar Ram, IIT Madras

- Developed and corroborated design frameworks for selecting an electric bus powertrain for single-motor drive, and dual motor torque and speed-coupled drive configurations with AVL CRUISE.
- Published two conference papers in IEEE ITEC INDIA 2019.

TEACHING EXPERIENCE

Instructor - MEEN 431 (Advanced System Dynamics and Controls) Fall 2022, Spring 2025

- Delivered one lecture in Fall 2022 and five lectures in Spring 2025 for a fourth-year undergraduate course comprising around 15 students on dynamics and controls on topics ranging from equilibrium of a dynamical system, kinematics and dynamics, and PID controller design.

Teaching Assistant - MEEN 357 (Numerical Methods in Engineering) Aug 2021 - Dec 2021

- Evaluated and graded assignments and course projects for 120 students, encompassing both written work and Python coding tasks, and clarified queries pertaining to coding in Python.

MENTORING EXPERIENCE

PhD students mentored

- Luke Chen, Department of Electrical Engineering and Computer Science, UC Irvine, 2025 - present.
- David Martin, Department of Electrical Engineering and Computer Science, UC Irvine, 2025 - present.
- Praneet Iddamsetty, Department of Electrical Engineering and Computer Science, UC Irvine, 2025 - present.
- Nitesh Kumar, Department of Mechanical Engineering, Texas A&M University, 2025 - current.
- Anshuman Swain, Department of Mechanical Engineering, Texas A&M University, 2025 - current.
- Sixu Li, Department of Civil Engineering, Texas A&M University, 2023 - 2025. Outcomes: Journal article submitted to IEEE Transactions on Robotics.
- Saurabh Belgaonkar, Department of Mechanical Engineering, Texas A&M University, 2023 - 2025. Outcomes: Journal article submitted to IEEE Transactions on Aerospace and Electronic Systems.

MS students mentored

- Yiran (Katherine) Jin, Department of Electrical Engineering and Computer Science, UC Irvine, 2025 - present.
- Yeachan Okh, Department of Electrical Engineering and Computer Science, UC Irvine, 2025 - present.
- Karthik Moorthy, Department of Mechanical Engineering, Texas A&M University, 2023 - 2024. Outcomes: Conference paper in AIAA SciTech Forum 2024.
- Roshan Grande, Department of Engineering Design, IIT Madras, 2021 - 2023. Outcomes: Conference paper in IEEE International Conference on Intelligent Transportation Systems 2022.

Undergraduate students mentored

- Tommy Zhou, first-year undergraduate, Department of Electrical Engineering and Computer Science, UC Irvine, 2025 - present.
- Pranav Rajbhandari, Department of Computer Science, Carnegie Mellon University, 2023 - 2024. Outcomes: Journal article in Journal of Intelligent & Robotic Systems.

Additional mentoring experience

- Nearly 40 undergraduate students and 10 graduate students in 2023 - 2024, and 2024 - 2025 as the team captain for SAE AutoDrive.

JOURNAL PUBLICATIONS

1. **Deepak Prakash Kumar**, S. Rathinam, S. Darbha, and T. Bihl, "Heterogeneous Min-Max Multi-Vehicle Multi-Depot Traveling Salesman Problem: Heuristics and Computational Results," 2025, under preparation.
2. **Deepak Prakash Kumar**, S. Darbha, S. G. Manyam, and D. W. Casbeer, "A Novel Model for 3D Motion Planning for a Generalized Dubins Vehicle with Pitch and Yaw Rate Constraints," *IEEE Transactions on Robotics*, 2025, under revision.
3. S. Li, **Deepak Prakash Kumar**, S. Darbha, and Y. Zhou, "Time-optimal Convexified Reeds-Shepp Paths on a Sphere," *IEEE Transactions on Robotics*, 2025, under revision.
4. **Deepak Prakash Kumar**, S. Darbha, S. G. Manyam, and D. W. Casbeer, "A New Approach to Motion Planning in 3D for a Dubins Vehicle: Special Case on a Sphere," *IEEE Transactions on Robotics*, 2025, under revision.
5. S. Belgaonkar, **Deepak Prakash Kumar**, S. Rathinam, S. Darbha, and T. Bihl, "A Path Planning Algorithm for a Hybrid UAV Traveling in Noise Restricted Zones," *IEEE Transactions on Aerospace and Electronic Systems*, 2025, revised & resubmitted.
6. **Deepak Prakash Kumar**, S. Darbha, S. G. Manyam, D. W. Casbeer, and M. Pachter, "Equivalence of Dubins Path on Sphere with Geographic Coordinates and Moving Frames," *AIAA Journal of Guidance, Control, and Dynamics*, 2025.
7. **Deepak Prakash Kumar**, S. Darbha, S. G. Manyam, and D. W. Casbeer, "Generalization of Optimal Geodesic Curvature Constrained Dubins' Path on Sphere with Free Terminal Orientation," *IEEE Control Systems Letters*, 2024.
8. **Deepak Prakash Kumar**, P. Rajbhandari, L. McGuire, S. Darbha, and D. Sofge, "UAV Routing for Enhancing the Performance of a Classifier-in-the-loop," *Journal of Intelligent & Robotic Systems*, 2024.
9. **Deepak Prakash Kumar**, S. Darbha, S. G. Manyam, and D. Casbeer, "The Weighted Markov-Dubins Problem," *IEEE Robotics and Automation Letters*, 2023.
10. V. Bansal, **Deepak Prakash Kumar**, D. Roy, and S. C. Subramanian, "Performance evaluation and optimization of design parameters for electric vehicle-sharing platforms by considering vehicle dynamics," *Transportation Research Part E*, 2022.

CONFERENCE PUBLICATIONS

1. **Deepak Prakash Kumar**, S. Rathinam, S. Darbha, and T. Bihl, "Heuristic for Min-Max Heterogeneous Multi-Vehicle Multi-Depot Traveling Salesman Problem," in *AIAA SciTech Forum*, 2024, **Presented at conference**.
2. K. N. Moorthy, **Deepak Prakash Kumar**, S. Darbha, S. Rathinam, and T. Bihl, "Minimum-Cost Routing of two UAVs with Communication Constraints," in *AIAA SciTech Forum*, 2024, **Presented at conference**.
3. **Deepak Prakash Kumar**, S. Darbha, S. G. Manyam, D. Tran, and D. W. Casbeer, "Optimal Geodesic Curvature Constrained Dubins' Path on Sphere with Free Terminal Orientation," in *IEEE Indian Control Conference*, 2023, **Presented at conference**.

4. R. Grandhe*, **Deepak Prakash Kumar***, A. Mukhopadhyay, M. Sharma, and S. C. Subramanian, "Model-Based Toe Misalignment Detection in Single-Unit Twin-Axle Trucks," in *IEEE Conference on Intelligent Transportation Systems (ITSC)*, 2022, *** - joint first authors**.
5. **Deepak Prakash Kumar**, S. Gupta, S. Suriyamoorthy, S. C. Subramanian, S. Gowrisankar, D. S. Kumar, R. S. Murugan, and P. H. Latha, "Design and Evaluation of a Coupled Motor Drive Powertrain for an Electric Bus," in *IEEE International Transportation Electrification Conference India (ITEC - India)*, 2019, **Presented at conference**.
6. S. Gupta, **Deepak Prakash Kumar**, S. Suriyamoorthy, S. C. Subramanian, S. Gowrisankar, D. S. Kumar, R. S. Murugan, and P. H. Latha, "Impact of Varying Test Conditions in Standards for Electric Bus Powertrain Sizing," in *IEEE International Transportation Electrification Conference India (ITEC - India)*, 2019.
7. S. Suriyamoorthy, S. Gupta, **Deepak Prakash Kumar**, and S. C. Subramanian, "Parametric Evaluation of Ride Comfort and Traction Stability of Hub Motor Driven Electric Trucks," in *IEEE International Transportation Electrification Conference India (ITEC - India)*, 2019.
8. **Deepak Prakash Kumar**, S. Gupta, S. Suriyamoorthy, and S. C. Subramanian, "Design of a Dynamic Brake Force Regulation Strategy for Heavy Commercial Road Vehicles," in *IEEE TENCON*, 2019, **Presented at conference**.
9. S. Suriyamoorthy, S. Gupta, **Deepak Prakash Kumar**, and S. C. Subramanian, "Analysis of Hub Motor Configuration and Battery Placement on Ride Comfort of Electric Trucks," in *IEEE Vehicle Power and Propulsion Conference (VPPC)*, 2019.

AWARDS AND ACCOMPLISHMENTS

- Led Texas A&M University's **AutoDrive team** to place in the top three in three static challenges, third in two dynamic challenges in the SAE AutoDrive competition in 2024-2025, **finish second overall** in static challenges, fourth overall in dynamic challenges, and third overall in the competition.
- Received a **Graduate Student Travel Award** by the Department of Mechanical Engineering at Texas A&M University for presenting a conference paper at the American Control Conference in 2025.
- Awarded a **Summer Research Fellowship** by the Department of Mechanical Engineering at Texas A&M University for Summer 2025 for a proposed path planning problem **based on work with the Air Force Research Laboratory**.
- Awarded the **Continuing Student Fellowship** by the Department of Mechanical Engineering at Texas A&M University in Fall 2024 for the 2024-2025 academic year.
- Led Texas A&M University's **AutoDrive team** to place among the **top three in all static challenges** in the SAE AutoDrive competition in 2023-2024, **finish second overall** in static challenges, **second overall in dynamic challenges**, and second overall in the competition.
- Awarded a **Summer Research Fellowship** by the Department of Mechanical Engineering at Texas A&M University for Summer 2024 for a proposed path planning problem **based on AutoDrive**.
- Received a **Graduate Student Travel Award** by the Department of Mechanical Engineering at Texas A&M University for presenting a conference paper in the IEEE Indian Control Conference in 2023.
- Awarded a **Graduate Student Fellowship** by the Department of Mechanical Engineering at Texas A&M University for 2021-2022.
- Awarded the Bhagyalakshmi and Krishna Ayengar Award for the **best project/thesis** in energy efficiency (2020).
- Conferred the Prema and Nagaraja Setty Prize for securing the highest CGPA in Engineering Design, IIT Madras (2015 - 2020).
- Received the Dr. K. Gopinath and Padmini Gopinath Prize for securing the highest CGPA in Automotive Engineering, Engineering Design, IIT Madras (2015 - 2020).
- Recipient of the Institute Merit Prize for academic distinction during the *fourth year* of study (2018 - 2019), *third year* of study (2017 - 2018), and *second year* of study (2016 - 2017), Engineering Design, IIT Madras.

- Received a **Travel Grant** from the International and Alumni Relations, IIT Madras, for attending and presenting a paper at the IEEE TENCON conference held in October 2019 in Kochi, India.
- **Won 3rd prize** for the poster "Effect of Brake Force Distribution on Braking Performance for Heavy Commercial Road Vehicles" presented at Symposium on International Automotive Technology 2019 [Poster].

PROPOSAL WRITING

- "Safe Embodied AI in shared environments: Human-Humanoid Collaboration for Construction," under internal review prior to submission to Cisco's call for proposals with focus on Embodied-AI, November 2025.
- "Walk the Last Mile: Safe Physical AI Architecture for Humanoid Last-Mile Delivery," submitted to Amazon Science's call for proposals on "Think Big," November 2025.
- "Physical AI for Humanoid Construction Robots: Enabling Safe Human-Robot Interaction," for Research Opportunity Funds for Centers (ROF4Centers) to the Dean of Engineering, UC Irvine, for university support of $50,000 for a project on humanoid robots in construction with Genova Construction, a construction company in Irvine, November 2025.
- "Physical AI for Safe and Collaborative Multi-Robot Systems," submitted to NVIDIA Academic Grant, PI: Prof. Mohammad Al Faruque, September 2025.
- "Path Planning Algorithms for Hypersonic Vehicles," submitted to Naval Engineering Education Consortium (NEEC), PI: Prof. Swaroop Darbha, October 2023.

ADDITIONAL PRESENTATIONS & RESEARCH TALKS

1. "Planning and Decision Making for Autonomous vehicles," presented at **46th Southern California Controls Conference**, 2025.
2. "Generalization of Optimal Geodesic Curvature Constrained Dubins' Path on Sphere with Free Terminal Orientation," presented at **American Control Conference**, 2025.
3. "Trajectory Planning and Task Allocation for Autonomous Ground and Aerial Vehicles," **Talk at Department of Mechanical Engineering, Indian Institute of Technology Delhi**, 2025.
4. "Trajectory Planning and Task Allocation for Autonomous Ground and Aerial Vehicles," **Talk at Department of Electrical Engineering, Indian Institute of Technology Bombay**, 2025.
5. "Trajectory Planning and Task Allocation for Autonomous Ground and Aerial Vehicles," **Talk at Department of Mechanical & Aerospace Engineering, Indian Institute of Technology Hyderabad**, 2025.
6. "Trajectory Planning and Task Allocation for Autonomous Ground and Aerial Vehicles," **Talk at RBCCPS, Indian Institute of Science**, 2025.
7. "The Weighted Markov-Dubins Problem," Presented by Dr. David Casbeer from Air Force Research Laboratory at **ICRA 2024**.
8. "Time-Optimal and Time-Fuel Optimal Motion Planning for A Curvature-Constrained Vehicle, and Vehicle Routing Problems," **Talk at Department of Engineering Design, Indian Institute of Technology Madras**, 2023.

SCHOLARLY AFFILIATIONS & VOLUNTEERING ACTIVITIES

- **Reviewer** of articles submitted in
  - IEEE Transactions on Aerospace and Electronic Systems.
  - American Control Conference (ACC) 2026.
  - IEEE International Conference on Robotics and Automation (ICRA) 2025, 2026.
  - IEEE Transactions on Intelligent Vehicles.
  - IEEE Transactions on Systems, Man, and Cybernetics.
  - IFAC Symposium on Control in Transportation Systems (CTS 2024).

- IEEE Intelligent Vehicles Symposium 2024.
- IEEE Indian Control Conference 2023.
- ASME Journal of Dynamic Systems, Measurement and Control.

- **Volunteered as a grader** for Texas A&M High School Math Contest in 2022 and 2023.
- **Judge** for Texas Science & Engineering Fair 2022, wherein middle school and high school students presented their projects.

TECHNICAL SKILLS

Programming Languages/Frameworks	Python, Julia, ROS, C++
Simulation/Computational Tools	NVIDIA Isaac Sim, IPG TruckMaker, MATLAB, Simulink, Mathematica, AVL CRUISE, Arduino, R
Design Softwares	AutoCAD, Autodesk Inventor, SolidWorks, Fusion 360
Miscellaneous	Pytorch, Git, Ubuntu, LaTeX, Gurobi

REFERENCES

- Prof. Pramod Khargonekar, University of California, Irvine, email: pramod.khargonekar@uci.edu.
- Prof. Magnus Egerstedt, University of California, Irvine, email: magnus@uci.edu.
- Prof. Mohammad Al Faruque, University of California, Irvine, email: alfaruqu@uci.edu.
- Prof. Swaroop Darbha, Texas A&M University, email: dswaroop@tamu.edu.
- Prof. Sivakumar Rathinam, Texas A&M University, email: srathinam@tamu.edu.
- Dr. David Casbeer, Control Science Center, Air Force Research Laboratory, email: david.casbeer@afrl.af.mil.
- Dr. Krishna Kalyanam, NASA Aeronautics Research Institute (NARI) & NASA Ames Research Center, email: krishna.m.kalyanam@nasa.gov.
- Prof. C. S. Shankar Ram, Indian Institute of Technology (IIT) Madras, email: shankarram@iitm.ac.in.