PROGRAM DATES & VENUE

The program will be held during 07-18 July 2025 at IISc, Bangalore (Click Here for location).

COURSE FEE

| Category | | Until 30 June 2025 | After 30 June 2025 |
|--------------|--------------------|-----------------------|-----------------------|
| Professional | MNC / PSU | ₹ 50,000 | ₹ 60,000 |
| | R&D Labs/ Centers, | ₹ 35,000 | ₹ 45,000 |
| | Academia | | |
| | MSME / Startup | ₹ 30,000 | ₹ 35,000 |
| Student | Ph.D. | ₹ 20,000 | ₹ 25,000 |
| | M. Tech. | ₹ 12,500 | ₹ 15,000 |

Note:

- a) 18% will be additionally charged for the GST.
- b) 30% of the course fee will go to IISc as overhead.
- c) For self-sponsored candidates, there will be 10% discount for IEEE CSS members (membership proof will be required).
- d) The project staff of with BTech/MTech degree will be considered equivalent to MTech/PhD Students respectively.

TRAVEL & ACCOMODATION

On-campus guest-house rooms are reserved for sponsored DRDO participants only. All other attendees should contact the CCE office for hotel bookings assistance (some AC/non-AC rooms have been blocked near to IISc with rates comparable to IISc guest house). These rooms are allotted on a first-come, first-serve basis. Note that the room rent is not included in the course fee and it must be paid directly to the hotel. Additional nearby accommodation options are also available for independent booking.

With the support received from IEEE CSS, 15 selected meritorious graduate students from outside Bangalore will receive travel and lodging support: upto ₹10,000 for travel reimbursement (bus/train/flight) plus free lodging. To apply, the student must formally write to the course coordinator Prof. R. Padhi (padhi@iisc.ac.in) and attach his/her transcript, a letter of recommendation from the adviser or HoD, and copies publications (if any).

TOPICS

| Review of Flight Mechanics; Guidance and Control LoopsBasics of OptimizationOptimal Control Formulation, Transcription MethodModel Predictive ControlOptimal Control using Calculus of VariationsClassical Methods for Optimal ControlDynamic Programming (DP) for Optimal ControlApproximate DP and Adaptive CriticClassical and Optimal Guidance of MissilesClassical and Optimal Guidance for Soft-Landing MissionsOptimal Computational Guidance for Aerospace MissionsModel Predictive Static Programming (MPSP) and VariantsOptimal Guidance of Missiles using MPSPOptimal Guidance in Space Missions using MPSPState and Control Constrained Optimal ControlPseudo-Spectral and Birkoff Optimal ControlEmbedded System ImplementationLinear Quadratic Regulator (LQR) and SDREMotion Planning with LQR for Autonomous RobotsDynamic Game TheoryLinear and Extended Kalman Filter (KF)Unscented KF and Space ApplicationsParticle Filter and Multi-target EstimationRobust Control of Linear SystemsTransformation Allergic Robust ControlDynamic Inversion for Nonlinear Autopilot DesignAdaptive Autopilot with PINN for Enhanced RobustnessConstrained Nonlinear and Robust Autopilot Design | Introduction and Motivation |
|---|--|
| Basics of OptimizationOptimal Control Formulation, Transcription MethodModel Predictive ControlOptimal Control using Calculus of VariationsClassical Methods for Optimal ControlDynamic Programming (DP) for Optimal ControlApproximate DP and Adaptive CriticClassical and Optimal Guidance of MissilesClassical and Optimal Guidance for Soft-Landing MissionsOptimal Computational Guidance for Aerospace MissionsOptimal Guidance of Missiles using MPSP) and VariantsOptimal Guidance in Space Missions using MPSPOptimal Guidance in Space Missions using MPSPState and Control Constrained Optimal ControlPseudo-Spectral and Birkoff Optimal ControlEmbedded System ImplementationLinear Quadratic Regulator (LQR) and SDREMotion Planning with LQR for Autonomous RobotsDynamic Game TheoryLinear and Extended Kalman Filter (KF)Unscented KF and Space ApplicationsParticle Filter and Multi-target EstimationRobust Control of Linear SystemsTransformation Allergic Robust ControlDynamic Inversion for Nonlinear Autopilot DesignAdaptive Autopilot with PINN for Enhanced RobustnessConstrained Nonlinear and Robust Autopilot DesignQuizzes and Discussion Sessions | Review of Flight Mechanics; Guidance and Control Loops |
| Optimal Control Formulation, Transcription MethodModel Predictive ControlOptimal Control using Calculus of VariationsClassical Methods for Optimal ControlDynamic Programming (DP) for Optimal ControlApproximate DP and Adaptive CriticClassical and Optimal Guidance of MissilesClassical and Optimal Guidance for Soft-Landing MissionsOptimal Computational Guidance for Aerospace MissionsModel Predictive Static Programming (MPSP) and VariantsOptimal Guidance in Space Missions using MPSPOptimal Guidance in Space Missions using MPSPOptimal Guidance in Space Missions using MPSPState and Control Constrained Optimal ControlPseudo-Spectral and Birkoff Optimal ControlEmbedded System ImplementationLinear Quadratic Regulator (LQR) and SDREMotion Planning with LQR for Autonomous RobotsDynamic Game TheoryLinear and Extended Kalman Filter (KF)Unscented KF and Space ApplicationsParticle Filter and Multi-target EstimationRobust Control of Linear SystemsTransformation Allergic Robust ControlDynamic Inversion for Nonlinear Autopilot DesignAdaptive Autopilot with PINN for Enhanced RobustnessConstrained Nonlinear and Robust Autopilot DesignAutopilot with Sessions | Basics of Optimization |
| Model Predictive ControlOptimal Control using Calculus of VariationsClassical Methods for Optimal ControlDynamic Programming (DP) for Optimal ControlApproximate DP and Adaptive CriticClassical and Optimal Guidance of MissilesClassical and Optimal Guidance for Soft-Landing MissionsOptimal Computational Guidance for Aerospace MissionsModel Predictive Static Programming (MPSP) and VariantsOptimal Guidance of Missiles using MPSPOptimal Guidance in Space Missions using MPSPOptimal Guidance in Space Missions using MPSPState and Control Constrained Optimal ControlPseudo-Spectral and Birkoff Optimal ControlEmbedded System ImplementationLinear Quadratic Regulator (LQR) and SDREMotion Planning with LQR for Autonomous RobotsDynamic Game TheoryLinear and Extended Kalman Filter (KF)Unscented KF and Space ApplicationsParticle Filter and Multi-target EstimationRobust Control of Linear SystemsTransformation Allergic Robust ControlDynamic Inversion for Nonlinear Autopilot DesignAdaptive Autopilot with PINN for Enhanced RobustnessConstrained Nonlinear and Robust Autopilot DesignQuizzes and Discussion Sessions | Optimal Control Formulation, Transcription Method |
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| Approximate DP and Adaptive CriticClassical and Optimal Guidance of MissilesClassical and Optimal Guidance for Soft-Landing MissionsOptimal Computational Guidance for Aerospace MissionsModel Predictive Static Programming (MPSP) and VariantsOptimal Guidance of Missiles using MPSPOptimal Guidance in Space Missions using MPSPState and Control Constrained Optimal ControlPseudo-Spectral and Birkoff Optimal ControlEmbedded System ImplementationLinear Quadratic Regulator (LQR) and SDREMotion Planning with LQR for Autonomous RobotsDynamic Game TheoryLinear and Extended Kalman Filter (KF)Unscented KF and Space ApplicationsParticle Filter and Multi-target EstimationRobust Control of Linear SystemsTransformation Allergic Robust ControlDynamic Inversion for Nonlinear Autopilot DesignAdaptive Autopilot with PINN for Enhanced RobustnessConstrained Nonlinear and Robust Autopilot DesignQuizzes and Discussion Sessions | Dynamic Programming (DP) for Optimal Control |
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| | Quizzes and Discussion Sessions |







TUTORIAL WORKSHOP ON

Advanced Guidance, Control and State Estimation for Aerospace Vehicles & Autonomous Systems

07 – 18 July 2025

This workshop is open for 70 participants on self-registration on selection basis. Early registration is highly encouraged.

Dept. of Aerospace Engineering Indian Institute of Science Bangalore, 560 012

SUMMARY

This well-structured and focused lecture series is designed to give a comprehensive exposure to academic faculties, Industry professionals, graduate students and working scientists/engineers about selected topics on Guidance, Optimal Control and State Estimation specifically for Aerospace vehicles and autonomous systems. Special care will be taken to maintain lucidity of the material, so that the participants of the course can follow the topics with ease and, more importantly, can make use of them in solving challenging research and development problems of academia, R&D labs, and industry. In addition, this course is supposed to build up sufficient background on some of the advanced topics so that further studies can be carried out by the attending participants independently.





Dr. P. K. Menon

Optimal Synthesis Inc. Los Altos, CA, USA

Dr. P. K. Menon is a renowned expert in optimal control and state estimation techniques and has solved numerous practical problems for guidance and control of aerospace vehicles.

Prof. R. K. Yedavalli

Emeritus Professor, Mechanical and Aerospace

Engineering, Ohio State University, USA

Prof. R. K. Yedavalli has extensive

experience in robust control and linear

system stability analysis. He is the inventor

of Transformation Allergic Robust Control.



REGISTRATION DETAILS

Interested participants can either scan the QR code below for registration or follow this link:

Note:

- candidate.

ADDRESS FOR CORRESPONDENCE

Center for Continuing Education Indian Institute of Science Bengaluru – 560012, India

Tel. No. +91-80-2293-2247 Email: offic.cce@iisc.ac.in

INVITED SPEAKERS



Prof. Frank Allgöwer

Director of Institute for Systems Theory and Automatic Control, University of Stuttgart, Germany

Prof. Frank Allgöwer is renowned for his contributions to nonlinear and model predictive control. His research is highly-cited.



Mechanical and Aerospace Engineering Department, Naval Postgraduate School, Monterey

Prof. I. M. Ross

Prof. I. M. Ross is a pioneer of pseudo-spectral and Birkoff optimal control, and their applications to various challenging aerospace problems.





Prof. Dayaram Sonawane Asso. Professor, Instrumentation & Control, **COEP** Tech University, Pune Prof. D. Sonawane focuses on embedded system implementation of model predictive control and other optimal control techniques.

Dr. Ravi Prakash Assistant Professor, Robert Bosch Center for Cyber Physical Systems, IISc Bangalore

Dr. Ravi Prakash specializes in real-time state estimation, sensor fusion, and optimal robot control.

Dr. Sanat Biswas

Assistant Professor, Department of Electronics & Communications Engineering, IIIT Delhi

Dr. S. Biswas is an expert in Kalman Filter and applies it and other state estimation techniques to aerospace vehicles, drones, and robots.

Speaker & Workshop Co-Ordinator

Prof. Radhakant Padhi

HAG Professor, Aerospace Engineering, IISc Bangalore

Prof. R. Padhi is an excellent expert on Nonlinear, Optimal, Adaptive and Intelligent control, and their applications for Aerospace applications. Real-time optimal control for optimal guidance is one of his passions. He has also contributed to the G&C design of various missions of DRDO and ISRO.

https://forms.office.com/r/HkUVnakbLR



1 A valid proof (e.g. copy of ID card) has to be provided during registration *if claiming for a discounted rate*. The registration is on first come first serve basis due to limited number of seats.

2 After filling this form, if you are shortlisted for the course then you will receive a link with a validity of 48 hours to complete the payment and upon payment completion your seat will be confirmed for the course.

3 If fee is not paid within 48 hours after the payment link is received, then the seat will be offered to next waitlisted