AUTOMATIC CONTROL AND DYNAMIC OPTIMIZATION SOCIETY



Annual Report for 2023—2024

presented on

Annual General Body Meeting

26th October 2024





Contents:

- A. Introduction
- B. Major events/Activities/Programs during 2023—24
- C. Upcoming Events/Activities during 2024—25
- D. ACDOS-Budget/ Finances/Accounts
- E. Young Professional Activities





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INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL

Section A: Introduction

Automatic Control and Dynamic Optimization Society (ACDOS) was established in 2011 with the noble objective of promoting automatic control and dynamic optimization discipline in academia and industry across India and the world. The society aims to host international conferences, symposiums and technical workshops in India regularly in order to promote close interaction between industry and academia. ACDOS is a proud National Member Organization (NMO) of the International Federation of Automatic Control (IFAC), which has its presence in over 50 countries worldwide with a mission to promote the science and technology of automatic control through technical meetings, publications and other means.

The Automatic Control and Dynamic Optimization Society (ACDOS) was registered on 8th July, 2011 with the state government of Karnataka. The current office bearers of the society are:

| 1 | President of the society | Dr. Jayesh Barve |
|----|----------------------------------|-------------------------|
| 2 | Vice-President & President-Elect | Prof. S. Faruque Ali |
| 3 | Immediate Past President | Prof. Sukumar Mishra |
| 4 | Vice-President | Prof. Bidyadhar Subudhi |
| 5 | General Secretary | Prof. Tousif Khan N |
| 6 | Joint Secretary | Dr. Pushpak Jagtap |
| 7 | Treasurer | Dr. S. N. Omkar |
| 8 | Director of Operations | Prof. Radhakant Padhi |
| 9 | Executive Committee Member | Dr. Vaibhav Katewa, |
| 10 | Executive Committee Member | Dr. I Thirunavukkarasu |
| 11 | Executive Committee Member | Dr. Vipin Chandra Pal |

ACDOS Membership Status:

Professional Members: 310 (needs to be updated)

Student Members: 83 (needs to be updated)

Honorary Members: 26 (needs to be updated)



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Section B: Major Activities/Events/Programs in 2022—2023

The events conducted under the banner of ACDOS from September 2023 to October 2024 are,

- The Eight IFAC International Conference on Advances in Control and Optimization of Dynamical Systems (ACODS 2024) during 12-15 March 2024 at Shiv Nadar Institute of Eminence, Delhi-NCR.
- 2. An IEEE Bangalore CSS Chapter & ACDOS Joint Seminar on "An Overview of Estimators for Spacecraft Attitude and Orbit Control System" on 21st December 2023 in virtual mode.
- 3. ACDOS Technically co-sponsored the International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST-2024) during July 18-19, 2024, at Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC), Andhra Pradesh, India.
- 4. IFAC Sponsored a 3-day Workshop on the Wonders of Control Engineering via Drone Flying and Electric Vehicle, at CUTM Bhubaneshwar during 24-26 October 2024.

Event—I: Eight IFAC International Conference on Advances in Control and Optimization of Dynamical Systems (ACODS 2024)

The Eight IFAC International Conference on Advances in Control and Optimization of Dynamical Systems (ACODS 2024) was jointly organized by Shiv Nadar Institute of Eminence and ACDOS from 12-15 March 2024 at Shiv Nadar Institute of Eminence, Delhi-NCR.

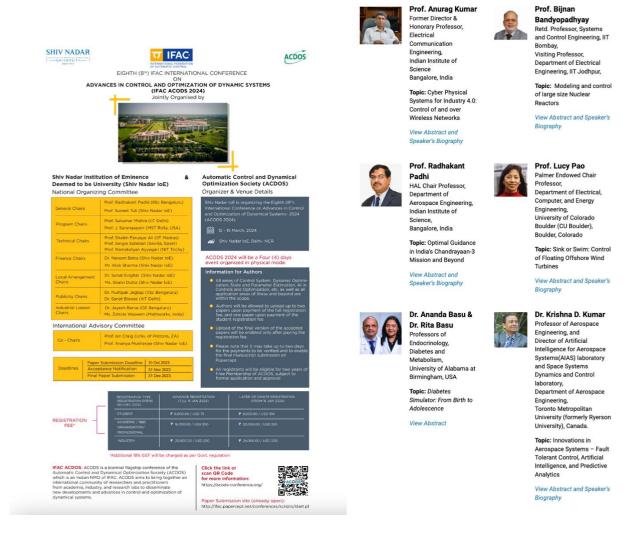




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Event—II: Seminar on An Overview of Estimators for Spacecraft Attitude and Orbit Control System

An IEEE Bangalore CSS Chapter and ACDOS jointly organized a seminar titled "An Overview of Estimators for Spacecraft Attitude and Orbit Control System" by Dr Philip N K, Outstanding Scientist (Retired), Former Programme Director Satellite Navigation Programme, UR Rao Satellite Centre, Bangalore on 21st December 2023 in virtual mode.

Event—III: International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST-2024)

ACDOS technically sponsored the International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST-2024), which will be held in the Department of Electrical and Electronics Engineering, Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC), Andhra Pradesh, India, on July 18-19, 2024.

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Welcome to ICCIGST-2024

The conference plays a vital role to stir the grey cells to bring about the latest and the most innovative recent areas of researches in the field of advanced and modern application of Computational Intelligence in Green and Sustainable Technologies. In which the researchers' zeal for innovation and passion are tested to the limit. The conference also aims to bring people together from various field but having the common interest and passion research in further advancement in the field of intelligent systems. Such an amalgamation of various research oriented minds will bear prolific results in future, which might lead to further advancements in future in such an era where anything is possible

International Conference on Computational Intelligence Green and Sustainable Technologies (ICCIGST-2024), will be held in Department of Electrical and Electronics Engineering, Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC), Andhra Pradesh, India, during 18th-19th July, 2024.

Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) is the first Private Engineering College in the united state of Andhra Pradesh (AP) and was established in the year 1977. VRSEC is offering 9 UG Programmes (B.Tech) and 5 PG Programmes (M.Tech) in Engineering with various specializations. In addition, the institute is offering PG Programmes of Masters in Business Management (MBA) and Masters in Computer Applications (MCA). 6 UG programs in engineering are accredited by NBA in Outcome Based Education Format (OBE). Autonomous since 2006 and extended for 10 years, upto 2027-28 without visit to the collage, first in Andhra Pradesh. Ranked below 200 by NIRF, GOI, successively for the last five years and adjudged as one of the best engineering college in the country by national survey agencies such as India Today and Data Quest. VRSEC was accredited by NAAC with 'A+' grade and certified with ISO 9001:2015.

The institute has totally 326 faculty members with 155 Doctrates from various premier institutions. Six enginee departments are recognized as Research Centres by JNTUK Kakinada. The faculty and students are regularly publishing their research articles in indexed journals and conferences across the globe. The institute has strong industry partnership and signed 60 MOUs with various organizations The institute has established various advanced Labs and Center of Excellence in collaboration with industries like DASSAULT Systems, IBM, Oracle, Cisco, ADRIN-ISRO, National Instruments, Avantel and University of

Technical Tracks of ICCIGST-2024

Track 1: Smart Optimization & Computing

- Artificial Intelligence
- ✓ Machine Learning Techniques
- ✓ Cloud Computing & Fog Computing
- ✓ Wide Area Monitoring, Protection and Network Control ✓ Neural network and Fuzzy Computation
- ✓ Intelligent and Hybrid System✓ Cyber Security
- ✓ Block Chain

Track 2: Smart, Green and Sustainable Technologies

- ✓ Micro grid/Smart Grid Control
- ✓ Renewable Energy Sources and Technology
- ✓ Power, Control and Energy Systems
 ✓ Recent Innovations in Design Engineering and Smart City Infrastructure
- ✓ Sustainable Technology for Aerospace Engineering ✓ Electric Vehicles
- ✓ Converter Topologies
- ✓ Green Energy Issue✓ V2G and G2V Technology and Challenges
- ✓ Demand Side Management

Track 3: Biomedical and Instrumentation

- ✓ Advanced Sensors ✓ Industry 4.0
- ✓ Virtual Instrumentation
- ✓ Health Care Systems ✓ Intelligent Control Systems
- ✓ Process Optimization and Control
- ✓ Robotics & Control
- ✓ Analytical Instrumentation
- ✓ Biomedical Signal & Image Processing ✓ Industrial Automation & Instrumentation

- ✓ Embedded Systems and Automation ✓ Multimedia and Applications, 5G and 6G Technology
- Network Protocols, Mobile Computing ✓ Mobile Ad-hoc Networks, Mobile Agents
- ✓ Cross-layer Design/Optimization, Design and Performance Evaluation
- ✓ Traffic Control, Wireless Systems
- ✓ MU-MIMO Systems
- ✓ Optoelectronics and Optical Communication
- ✓ Image Processing, Computer Vision, Bio-image Processing, Audio/video Processing
- ✓ Data Processing, Estimation and Identification,
- Remote Sensing, Information Fusion
- ✓ Brain Computer Interface✓ Signal Transforming and Filtering
- ✓ Digital System Design and Structures

Track 5: Computing Devices and Circuits ✓ Advanced CMOS, Post-CMOS, Quantum Computing

- ✓ Cryogenic Circuits
- ✓ Novel Devices, Novel Computing Paradigms
- ✓ Tunnel FET, Negative Capacitance FET
- ✓ 2D Materials, Nanowires, Quantum Dots ✓ Topological Insulators, Phase Transitions Transistors
- ✓ Qubit Devices for Quantum Computing Enablement
- Cryogenic Circuits ✓ Magnetic Logic, Spintronics, Plasmonics

Event—IV: IFAC Sponsored 3-day Workshop on Wonders of Control Engineering via Drone

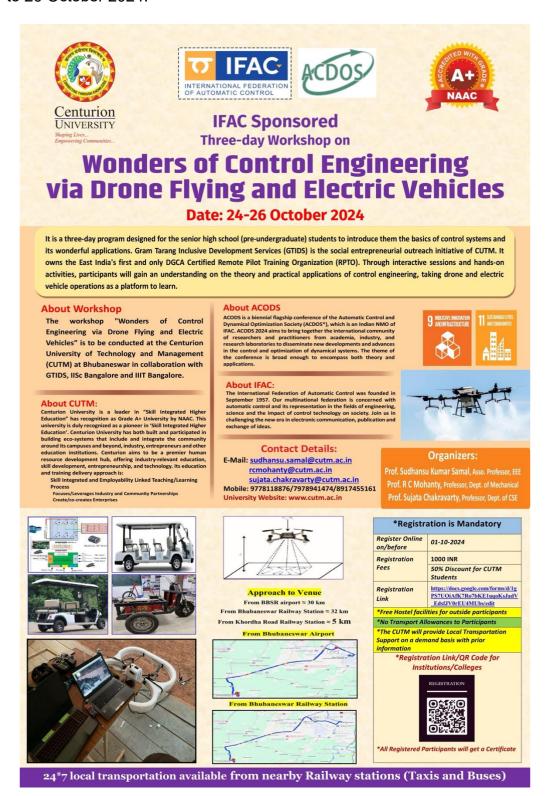
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Flying and Electric Vehicles

The workshop "Wonders of Control Engineering via Drone Flying and Electric Vehicles" is to be conducted at Centurion University of Technology and Management (CUTM) at Bhubaneshwar in collaboration with GTIDS, IISc Bangalore, and IIIT Bangalore from 24 October to 26 October 2024.



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Section C: Upcoming Events/Activities 2024—2025

There are two events that is planned for the future.

- ACDOS AGM and One-day Workshop on 26th October 2024.
- 2. IFAC-sponsored graduate school on advanced sliding mode control at IIT Jodhpur from 5 December – 10 December 2024

Event—I: ACDOS AGM and 1-day Workshop

ACDOS AGM, along with a 1-day workshop containing several talks on control and optimization, will be held on 26th October 2024 at CUTM Bhubaneshwar Campus.



Event—II: IFAC-sponsored graduate school on advanced sliding mode control

The Graduate School on Advanced Sliding Mode Control, sponsored by IFAC, is to be held at IIT Jodhpur, from December 5-10, 2024. It provides an opportunity for young researchers and students to participate and interact with leading researchers in the variable structure and sliding mode control.



October 2024





Graduate School on Advanced Sliding Mode Control

Sponsored by International Federation of Automatic Control
Venue:
Indian Institute of Technology Jodhpur, India

Date: December 05-10, 2024





Chief Patron

Prof. Avinash K. Agarwal, Director, IIT Jodhpur

Organizing Committee:

- Prof. B. Bandyopadhyay, (Chair) IIT Jodhpur
- Dr. Jayesh Barve, GE Vernova
- Prof. Deepakumar M. Fulwani, IIT Jodhpur
- Dr. Abhisek K. Behera, IIT Roorkee

Contact

Prof. B. Bandyopadhyay Department of Electrical Engg. IIT Jodhpur, India Tel: +91 9619877889 Email: <u>bijnan@iit.ac.in</u>

Registration Dates:

Start: 01/10/2024 End: 30/11/2024

Registration Fees:

Student: 5,000 INR Industry: 12,000 INR Academic: 8,000 INR Young Women: 3,000 INR (Below 30 Years)

Bank Details

Account Name: Research & Development IIT Jodhpur Account No: 01421000144666 Bank: HDFC Address: HDFC Bank Limited, 57 B, 9th Chopasani Road, Jodhpur 342003, Rajasthan IFSC Code: HDFC0000142

The Graduate School on Advanced Sliding Mode Control, sponsored by IFAC, is to be held at IIT Jodhpur, from December 5-10, 2024. It provides an opportunity for young researchers and students to participate and interact with leading researchers in the variable structure and sliding mode control.

IFAC: (www.ifac-control.org/) The International Federation of Automatic Control was founded in September 1957. IFAC multinational federation is concerned with automatic control and its representation in the fields of engineering, science and the impact of control technology on society. Join us in challenging the new era in electronic communication, publication and exchange of ideas.

ACDOS: (www.acdos.org) Automatic Control & Dynamic Optimization Society (ACDOS) was established in the year 2011 with a noble objective to promote automatic control and dynamic optimization discipline in academia and industry across India. The society aims to host international conferences and technical workshops regularly in order to promote close interaction between industry and academia. The society also participates in curriculum development for graduate and under-graduate studies in addition to facilitating productive research in this field. The society volunteers to honor eminent persons who excelled in this field in industry and academic circles. ACDOS is also a proud National Member Organization (NMO) of the IFAC.

Speakers

Prof. Sarah K. Spurgeon, UCL, UK Prof. Antonella Ferrara, Univ. of Pavia, Italy Prof. Bijnan Bandyopadhyay, IIT Jodhpur, India Prof. Jaime A. Moreno, UNAM, Mexico Prof. Andrez Bartoszewicz, Lodz Univ. of Tech., Poland

Topics:

Sliding Mode Control and Observation Optimization Based Sliding Mode Control Discrete-Time Sliding Mode Control Higher Order Sliding Mode Control Lyapunov Based Design of Sliding Mode Control Prof. S. Janardhanan, IIT Delhi, India Prof. Deepakumar M. Fulwani, IIT Jodhpur, India

Dr. Shyam Kamal, IIT (BHU) Varanasi, India Dr. Sohom Chakrabarty, IIT Roorkee, India Dr. Abhisek. K. Behera, IIT Roorkee, India

Free-Will Arbitrary Time Sliding Mode Control

Event-Triggered Sliding Mode Control Applications to Robotics, Energy Systems, Transportation Systems

- Registration is on first-come first service basis.
- Free accommodation and return travel support (III-Tier AC train from place of work to Jodhpur) for young women
 participants (proof of date of birth is required).
- The list of eligible Young Women participants will be informed by email.
- Accommodation will be provided in the IIT Jodhpur campus on payment basis (subject to availability).
- Please send the copy payment details and age proof along with registration form by email to bijnan@iiti.ac.in.
- For any query, kindly email to either <u>bijnan@iitj.ac.in</u> or <u>abhisek@ee.iitr.ac.in</u> with subject Advanced Graduate School on SMC 2024.



INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL

Section D: ACDOS Budget

The following are the details of the ACODS 2023—2024 budget approved by auditor Hiranmay Nitish and Company.

43,042

AUTOMATIC CONTROL AND DYNAMIC OPTIMIZATION SOCIETY

| | INCOINIE AND EAPE | NULLURE ACCOUNT FOR | R THE PERIOD O | INCOINE AND EXPENDITORE ACCOUNT FOR THE PERIOD 01-04-2023 TO 31-03-2024 | |
|-------------|-------------------------------------|---------------------|----------------|---|--------|
| Amount | Expenditure | Amount | Amount | Income | Amoni |
| 2022-23 | | 2023-24 | 2022-23 | | 2023-2 |
| 1,02,000 | 1,02,000 Salary to secretary | 1,20,000 | 1,18,125 | 1,18,125 Interest on FD | 1.2 |
| 35,100 Rent | Rent | 42,900 | 2,455 | 2,455 Savings Bank Interest | |
| î | - Printing and Stationery | 2,000 | , | ACODS-Event income | |
| 14,500 | 14,500 Professional fees | 10,368 | 65,876 | 65,876 Sponsorship Fees | - |
| 15,000 | 15,000 Audit Fees | 15,000 | | | |
| | - Cheque book charges | | 1,47,623 | 1,47,623 Excess of Expenditure Over Income | 1.9 |
| 15,000 | 15,000 Website maintainance charges | 1,02,301 | | | |
| 1,36,446 | 1,36,446 Subscription fees(IFAC) | 4 | | \$ | * |
| 1,072 | 1,072 Bank Charges | 4 | | | |
| , | Honorarium paid | 12,000 | | | |
| 14,961 | 14,961 GST payment | . 1 | | | |
| | Rates & Taxes | 35,473 | | | |
| 3,34,079 | | 3,43,042 | 3,34,079 | | 3,4 |

For AUTOMATIC CONTROL AND DYNAMIC OPTIMIZATION SOCIETY

Chartered Accountants

Chartered Accountants

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HIRANMAYI VINAY (Partner) Membership No. 206173

AUTHORISED SIGNATORIES

Place: Bangalore
Date: 20/09/2024
UDIN: 242061738KCZVY7872

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AUTOMATIC CONTROL AND DYNAMIC OPTIMIZATION SOCIETY

RECEIPTS AND PAYMENT ACCOUNT FOR THE PERIOD 01-04-2023 TO 31-03-2024

| Amount | RECEIPTS | Amount | Amount | PAYMENT | Amount |
|-------------|-------------------------|-----------|-------------|---|-----------|
| 2022-2023 | | 2023-2024 | 2022-2023 | 100 | 2023-2024 |
| | Opening Balance: | | 1,02,000 | 1,02,000 Salary to Secretary | 1,20,000 |
| 5,895 | 5,895 Cash | 5,898 | 35,100 Rent | Rent | 42,900 |
| 65,382 Bank | Bank | 3,87,485 | 1 | - Printing & stationery | 5,000 |
| 2,455 | 2,455 Bank Interest | 8,445 | 29,500 | 29,500 Professional fees | 25,368 |
| 5,82,980 | 5,82,980 FD Maturity | 2,48,412 | 1,36,446 | 1,36,446 IFAC subscription fees | 1 |
| Ĉ | - ACODS- Event Income | 21,100 | 1 | - Cheque book charges | 1 |
| 4,870 | 4,870 FD Interest | Ü | 15,000 | 15,000 Website maintainance charges | 1,02,301 |
| 65,876 | 65,876 Sponsorship Fees | K | 1,072 | 1,072 Bank charges | ī |
| | | i. | I. | Honorarium paid | 12,000 |
| | - | £ | 14,961 | 14,961 Renewal of domain & other services | r |
| | | | 3,87,485 | 3,87,485 Balance with bank | 3,57,873 |
| | | | 5,898 Cash | Cash | 5,898 |
| 7,27,458 | | 6,71,340 | 7,27,462 | | 6,71,340 |

For AUTOMATIC CONTROL AND DYNAMIC OPTIMIZATION SOCIETY

AUTHORISED SIGNATORIES
ACDOS
Tressurer

Membership No. 206173 Chartered Accountant HIRANMAYI VINAY

For Hiranmayi Nitish & Co

UDIN: 24206173BKCZVY7872 Date: 20/09/2024 Place: Bangalore

October 2024

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5,898

,57,873

2024

10,000

12,536 11,326 12,207 15,431

AUTOMATIC CONTROL AND DYNAMIC OPTIMIZATION SOCIETY

Balance Sheet as on 31-03-2024

| 21 03 3033 | 33111110411 | | NEOF 50 15 | 21 02 2012 | 3E338 | 21 02 2 |
|-----------------|--|-----------|------------|-----------------|-------------------------------------|---------|
| 31-03-2023 | LIADILITIES | | 4707-CO-TC | 21-02-5053 | ASSELS | 7-CO-TC |
| | Fund Account: | | | | Current Asset Loans & Advances | |
| 25,39,489 | 25,39,489 Opening Balance | 23,91,866 | | | Cash with Bank | |
| -1,47,623 | -1,47,623 Add: Excess of Income over Expenditure | -1,91,435 | 22,00,431 | 3,87,485 | 3,87,485 Savings account | 3,5 |
| Ü | Less: Income Tax paid | ť. | | 19,44,149 | 19,44,149 FD With Canara bank | 18,0 |
| 23,91,866 | 23,91,866 Closing balance | | | 5,898 | 5,898 Cash in hand | |
| | | | | | Advances , Deposits and Receivables | |
| | Current Liabilities and Provisions | | | 10,000 | 10,000 Rent Deposit | 67 |
| 15,000 | 15,000 Audit fees payable | | 15,000 | 7,428 | 7,428 TDS receivable 2020-21 | |
| | 23 | | | 28,045 | 28,045 TDS receivable 2019-20 | |
| | L- | 10 | | 12,536 | 12,536 TDS receivable 2021-22 | , |
| | 0 | | 8 | 11,326 | 11,326 TDS receivable 2022-23 | |
| | | | | 8 | TDS receivable 2023-24 | 1 |
| 24,06,866 Total | Total | | 22,15,431 | 24,06,866 Total | Total | 22,1 |

For AUTOMATIC CONTROL AND DYNAMIC OPTIMIZATION SOCIETY

AUTHORISED SIGNATORIES

HIRANMAYI VINAY

Membership No. 206173

Date: 20/09/2024 UDIN: 24206173BKCZVY7872 Place: Bangalore

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For Hiranmayi Nitish & Co

Chartered Accountants

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SECTION E. Young Professionals Activity (YPA)

The group of **Young Professionals Activity (YPA)** is created to help young professionals to enhance their knowledge, evaluate their career goals, polish their professional image as well as connect them to professional networks.

The activity done by this group is the following:

1: One-Week Workshop on "Design of Electric Vehicles" (DEV-2023) 2nd – 6th November 2023

Organized by the Department of Mechatronics, Manipal Institute of Technology, Manipal Academy of Higher Education (MAHE), Manipal, India And Solar Electric Vehicle Championship Team in Association with **YPA Group, ACDOS (An NMO of IFAC)** and IAC Electrical Stream, MIT Manipal

Short introduction: This workshop offers a unique opportunity to acquire comprehensive knowledge and strengthen skills in the field of designing electric vehicles.

Coordinated by: Dr. Umesh Kumar Sahu, MIT Manipal



2: Guest talk on "Electric Drives for Automation" by Dr. G. Bhuvaneswari, Professor, EEE Dept. Mahindra University, Hyderabad (Former Professor, Electrical Dept. IIT Delhi)

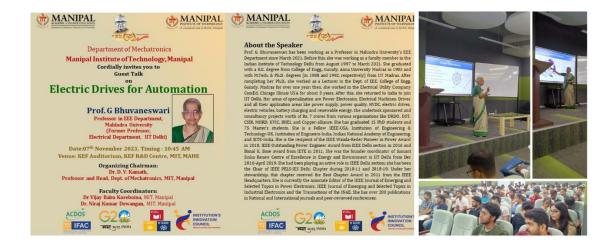
7th November 2023

Organized by Department of Mechatronics, Manipal Institute of Technology, Manipal Academy of Higher Education (MAHE), Manipal, India in Association with **YPA Group, ACDOS (An NMO of IFAC)**.

Co-coordinated by: Dr. Umesh Kumar Sahu, MIT Manipal







3: SOLAR ELECTRIC VEHICLE CHAMPIONSHIP (SEVC-2024)

27th to 31st March 2024

Organized by Manipal Institute of Technology, Manipal Academy of Higher Education (MAHE), Manipal, India in collaboration with the Coimbatore Society of Racing Minds (CSRM).

Knowledge Partner: ACDOS

Short introduction: SEVC (Solar Electric Vehicle Championship) is a national level electric vehicle design competition aimed at training engineering students with practical knowledge of recent technologies in engineering domain.

Co-coordinated by: Dr. Umesh Kumar Sahu, MIT Manipal













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INTERNATIONAL FEDERATION