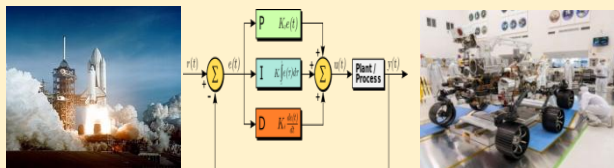


FIVE-DAY WORKSHOP ON

CONTROL SYSTEMS AND APPLICATIONS

CSA2021: 9TH-13TH MARCH, 2021



Chief Patron

Prof. Mahesh Chandra Govil
Director, NIT Sikkim

Patron

Dr. Ranjan Basak
Dean Academic, Coordinator TEQIP-III, NIT Sikkim

Convener

Dr. Sourav Mallick, HoD, Dept. of EEE, NIT Sikkim

Organized by

Department of Electrical and Electronics Engineering
National Institute of Technology Sikkim
Ravangla -737139, Sikkim, India.
Website: www.nitsikkim.ac.in

Supported by



TEQIP-III, NPIU

MoE, Government of India

ABOUT THE WORKSHOP

The online workshop is aimed at creating an effective forum for exchanges of innovative ideas and research works in the areas of control systems and applications which interplay with Machine Learning and AI. These are indispensable and common parts of different disciplines of engineering like Electrical, Mechanical, Electronics, Computer Science, and Instrumentation. In addition to its extreme importance in space vehicles, missile guidance systems, robotics, and power systems, the control system is an important and an integral part of the modern manufacturing and industrial processes. For example, automatic control is essential in the machine tools of manufacturing industries, in the design of autopilot systems in the aerospace industries, in the design of cars and trucks in the automobile industries, and drug delivery to patients. This online workshop will present a unique opportunity to experience practical problem solving on various control applications in several interdisciplinary areas of engineering for all the participants.

ABOUT NIT SIKKIM

National Institute of Technology Sikkim (NIT Sikkim), an Institute of National Importance, is one of the ten newly sanctioned NIT(s) by the Government of India in 2009. The Institute is offering B.Tech. programmes in Computer Science & Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, and Civil Engineering, and M.Tech. programmes in Computer Science and Engineering, Microelectronics & VLSI Design, and Electrical Engineering. The Institute also offers M.Sc. programme in Chemistry and Ph.D. programmes in all the departments. NIT Sikkim started functioning in 2010 as an autonomous institute under the aegis of MoE, India.

At present, NIT Sikkim is functioning from a temporary campus at Ravangla, South Sikkim, India which is connected by highways to other major towns in the state. Ravangla, a tourist town, lies close to Pelling and Gangtok at an elevation of 2100m, and is surrounded by Himalayan terrains and many famous tourist spots such as Buddha Park, Ralang Monastery, Char Dham Temple, Temi Tea Garden, Glass Skywalk etc.

RESOURCE PERSONS

- 1. Prof. Mahesh Chandra Govil**
Director, NIT Sikkim
- 2. Prof. Byrana Nagappa Suresh**
Chancellor, IIST Trivandrum and
Distinguished Prof. at ISRO Headquarters
- 3. Prof. Vinod Kumar**
Vice Chancellor, JUIT, Himachal Pradesh and
Ex. Prof. IIT Roorkee
- 4. Prof. Soumitro Banerjee**
Dept. of Physical Sciences, IISER Kolkata
- 5. Prof. Laxmidhar Behera**
Dept. of EE, IIT Kanpur
- 6. Prof. Debasish Ghose**
Dept. of Aerospace Engg., IISc Bengaluru
- 7. Prof. Amit Patra**
Dept. of EE, IIT Kharagpur
- 8. Prof. Binoy Krishna Roy**
Dept. of EE, NIT Silchar
- 9. Prof. Aparajita Sengupta**
Dept. of EE, IEST Shibpur
- 10. Dr. Santanu Kapat**
Dept. of EE, IIT Kharagpur
- 11. Dr. Indrani Kar**
Dept. of EEE, IIT Guwahati

ABOUT THE DEPT. EEE

The Electrical and Electronics Engineering Department of NIT Sikkim started its journey in 2010. The department has been engrossed in imparting education of the highest standards through quality teaching and research in multidisciplinary fields. Endowed with a plethora of faculty members and striking the right balance of dynamism and experience, the department offers an entire palette of B.Tech., M.Tech. in Electrical Engineering with specialization in Control, Power, and Electric Drives and research (Ph.D.) programmes. All the laboratories are equipped with sophisticated equipment and software platforms. The broad areas of research in this department encompass, but do not limit itself to, control systems, robotics, power electronics, power quality, power systems dynamics and stability, hybrid microgrids, application of nonlinear dynamics in engineering, renewable energy, and electric vehicles. The department takes immense pride in its strong industry-institute interactions, and has committed itself to adoption and accomplishment of multifarious potential projects. The department is involved in carrying out several sponsored R&D projects which are funded by national agencies like CDAC, DST, MeitY. The faculty members have been regularly contributing towards international and national journals of



repute and organizing FDP, Workshops and expert lectures. The UG, PG, and PhD students of the department are occupying important positions in both government as well as corporate sectors. A number of students have joined programmes of higher studies in India and abroad.

ORGANIZING COMMITTEE

COORDINATORS AND CONTACT PERSONS

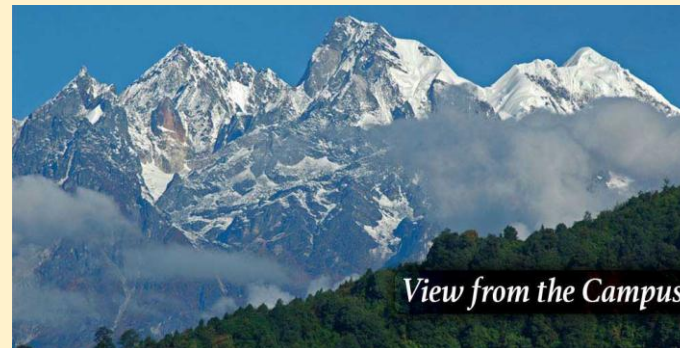
Dr. Anjan Kumar Ray, *EEE and Dean R&C*
akray.nits@nitsikkim.ac.in [+91 7479013226]

Dr. Pradeep Kumar, *EEE*
pradeep@nitsikkim.ac.in [+91 9905205302]

Dr. Kuntal Mandal, *EEE*
kuntal@nitsikkim.ac.in [+91 9830952246]

MEMBERS

1. Dr. Abhishek Rajan, EEE
2. Dr. Amit Kumar Yadav, EEE
3. Dr. Aurobinda Panda, EEE
4. Dr. Molay Roy, EEE
5. Dr. Prasenjit Dey, EEE
6. Dr. Anulekha Saha, EEE
7. Mr. Jogi Paul, EEE
8. Ms. Deepika Chettri, EEE
9. Mr. Manish Kumar, EEE



STUDENT MEMBERS

- | | |
|-------------------|---------------------|
| 1. Arabinda Ghosh | 2. Arindam Singha |
| 3. Amit Kumar | 4. Ayush Chauhan |
| 5. Sushmita Paul | 6. Sayon Karmakar |
| 7. Shivani Priya | 8. Shreyansh Sharma |

REGISTRATION

- UG, PG, Research Scholars, Faculty Members, Industry Persons are eligible.
- **No registration fee.** Seats are limited and will be confirmed on the first-come first-serve basis. Intimation will be sent by email.
- Workshop will be conducted via **online mode.**
- **Registration Link:** [CLICK HERE](#)
- Last date of registration: 7th March, 2021.
- **Certificate:** E-certificate will be sent after confirming the attendance criteria via email.

