

# Track-U CPS for Aerospace Systems

## About Conecct2023

Intentional Conference on Electronics, Computing and Communication Technologies, (CONECCT) is a flagship conference of the IEEE Bangalore Section, India. The CONECCT 2023 in its 9<sup>th</sup> edition and will be held from July 14-16, 2023. The conference will feature plenary talks, tutorials, and technologists as well as contributed papers from academics and industry professionals. Peer-reviewed accepted papers will most likely be published in IEEE Xplore as well as Conference Proceedings.

Cyber-Physical Systems (CPS) are Transforming the way people interact with Engineered systems. These integrate sensing, computation, control, and networking in to physical objects and infrastructure, connecting them to the internet and to each other. Robots, intelligent buildings, implantable medical devices, and autonomous cars are all examples of CPS. These systems and their applications are cardinal in addressing challenges faced by policy makers and technologists.

- High Assurance and High Availability Cyber Physical Systems
- Digital Twin / Simulation in development, production or maintenance of Cyber Physical Systems
- Connected Aircraft for Cyber Physical Systems
- Trusted Autonomous Systems
- Certification of Cyber Physical Systems
- Cyber Physical Interfaces in a distributed heterogeneous network
- Impact of Artificial Intelligence on Cyber Physical Systems
- Human Machine Interfaces or Human Factors for Cyber Physical Systems
- Architectures (hardware and/or software) for Cyber Physical Systems
- Product Life Cycle Management Processes and Methods in development and production of Airborne Cyber Physical System
- Cyber (processing, communication) Physical (sensing, actuation) Systems in Space and Defense
- CPS in Wireless Sensor Technologies
- Networked CPS Systems: Safety-Critical aspects, Security, predictability in dynamic environment
- CPS in Air Traffic Management
- **CONECCT Best Paper Award:** INR 20000 + certificate one each for industry and academia
- **Track Best Paper Award:** INR 4000+ certificate one each for industry and academia\*
- \* Affiliation of majority of authors will decide the category
- \* Total number of papers shall be >10 in the track for selection
- **Early bird registration discount, IEEE member, student member discounts CMT Submission link:**  
<https://cmt3.research.microsoft.com/CONECCT2023>

### Track Chair

**Puneet Kumar Mishra**

Chair-Elect, IEEE AESS Bangalore Chapter  
Head, SACTDS, URSC, ISRO

### Track Co-Chairs:

**Kiran Gopala Krishna,**

Chief Architect and  
Associate Technical Fellow, Boeing

**Dr. Pavan Kumar B.**

Scientist -SF, URSC, ISRO

### Important Dates

- |                             |                    |
|-----------------------------|--------------------|
| Full Paper Submission       | : 05, March, 2023  |
| Acceptance Notification     | : 15 April, 2023   |
| Final Manuscript Submission | : 15 May, 2023     |
| Conference Dates            | : 14-16 July, 2023 |

