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MIT WORLD PEACE UNIVERSITY | PUNE
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS



IEEE SPS Summer School | AI-Powered IoT for Building Smart Sustainable Signal Processing Applications

November 15-19, 2021

About MIT-WPU

MIT Pune is now MIT World Peace University!
MIT World Peace University (MIT-WPU) is known to be among the top education institutions in India since the establishment of the MIT Group of Institutes in 1983. MIT-WPU is at the epicentre for imparting a holistic value-based education for the promotion of a universal culture of peace and welfare among the youth.

About IEEE SPS Summer School

IEEE SPS Summer School 2021, "AI-Powered IoT for Building Smart Sustainable Signal Processing Applications" focuses on AIoT, a strong and powerful technique for many applications as it blends the internet of things with smart systems.

Artificial Intelligence plays a vital role in IoT applications and deployments. The blend of AI and IoT empowers the systems to be predictive, prescriptive and autonomous.

Aim of the proposed IEEE Summer School is to highlight AI Powered IoT applications and make the participants aware of the technical aspects and opportunities through hands-on experience.

Objectives of IEEE Summer School:

- To revise the fundamentals of IoT, AI, ML and DL
- To understand the IoT, protocols, communication technologies and its use cases.
- To explore research opportunities and challenges in the field of IoT and AI applications.

Topics to be covered:

- Introduction to IoT, Architectures and Protocols, Cloud-centric IoT
- Fundamentals of AI, ML and DL
- Applications of Machine Learning to object detection and segmentation
- Role of AI in IoT and Potential IoT applications like Smart health, Smart cities, Agriculture System etc.

Hands-on/demo Sessions:

- Sensors and Actuators interfacing with IoT/embedded boards (Arduino, ESP8266, Raspberry Pi etc.)
- Simulation Exposure of various IoT and cloud platforms.
- Mobile App development for IoT Applications
- Server client communication using MQTT/HTTP
- IoT Implementation using JETSON Nano
- Demonstration of AI Applications

REGISTRATION

Link - <https://forms.gle/RXpx7K6K3M7DSmNM6>



SPEAKERS



Dr. Petia Radeva
Professor
University of Barcelona



Dr. Sujatha Krishnamoorthy
Assistant professor
Wenzhou -kean University



Dr. Jino Ramson
Post Doctoral Researcher
Purdue University



Arunkumar Nair
Tech Head, Canspirit
Artificial Intelligence



Dr. SRN Reddy
Professor, CSE Dept. IGDTUW,
Kashmerigate, Delhi



Dr. Vinaya Gohokar
Head, School of ECE,
MIT-WPU, Pune



Dr. Arti Khaparde
Professor, School of ECE,
MIT-WPU, Pune



Dr. G. V. V. Sharma
Associate Professor,
IIT Hyderabad

PARTICIPANTS

The faculty members from the ECE, CSE, EEE, and IT disciplines, Research Scholars, PG Scholars, and Industry Person.

CONVENER:

Dr. Prasad D. Khandekar
Dean, Faculty of Engineering and
Technology, MIT-WPU

HEAD OF SCHOOL

Dr. Vinaya V. Gohokar,
Professor and Head,
School of Electronics and Communication
Engineering, MIT-WPU

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