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“COGNITIVE IOT”

Dr. R. GIRIJA

Assistant Professor (SG-I)
SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
VELLORE INSTITUTE OF TECHNOLOGY
CHENNAI.

"Meeting link will be sent to registered email"

Date and Time: 10/04/2021, 2.00 PM - 3.30 PM (+IST)

Registration link: <https://bit.ly/3fW9YBe>

Certificates will be given to Registered participants only

Short Biography:

Dr. R. Girija R is an Assistant Professor in the department of computer science and engineering at VIT University, Chennai campus India. She received a bachelor's degree from Anna University, India, and a Master's degree with a specialization in Information security from Pondicherry University, India. She received her doctorate from The North Cap University, Gurugram, India. Her topic of the thesis is "Development of Optical image encryption techniques with the construction of different phase masks in canonical transforms". The Master's Project titled Enhancing Authentication on RFID tags for anti-counterfeiting was submitted in IPC printed circuits EXPO in Las Vegas, USA. She is one of the toppers and got a stipend from Information Security Education Awareness (ISEA), Ministry of DIT, India. She has more than eleven years of teaching experience in different engineering institutes. She is a student member of OSA. Her research interests are image encryption and decryption systems, S-Box, DRPE, Optical image processing. She has many publications in SCI and Scopus journals with good impact factors.

Abstract of Talk:

1. The Internet of Things (IoT) has already been infiltrated into our everyday life in the forms of smartphones, smart TVs, fitness trackers, health monitoring systems, smartwatches, vending machines, smart meters, city traffic, building security systems, and much more like this.
2. It has steered the automation to a new high.
3. But IoT alone has limited capability.
4. To reap the actual benefit of IoT, it has to be intelligent.
5. In this talk, I will identify the reasons why IoT needs Artificial Intelligence (AI).
6. The intelligent IoT which I will discuss is termed the Cognitive IoT (CIoT). Cognitive IoT uses a new computing paradigm called Cognitive Computing, often popularly dubbed as the third era of computing.
7. Cognitive Computing will make IoT more sophisticated, more intelligent, and more interactive.
8. I also focus on the convergence of IoT with Cognitive AI.
9. In addition to introducing a preliminary idea of Cognitive Computing, I also discuss several aspects of CIoT and I will also explain how Cognitive Computing has been used in IoT through different forms such as Cognitive Network, Cognitive Devices, and Cognitive Analytics.
10. A special discussion will also be presented on how CIoT has taken automation to a new level.

Convener:

Dr. Joice Sophia Ponraj, Ph.D., Director CAM, A-DIRAC
Dr. D. Sathish Chander, Ph.D., Co-Director CAM, A-DIRAC

Co-Ordinator:

Ms. Huberta Chinnapparaj, Junior Research Fellow, CAM, A-DIRAC
Mr. T. James Caleb Peter, Junior Research Fellow, CAM, A-DIRAC