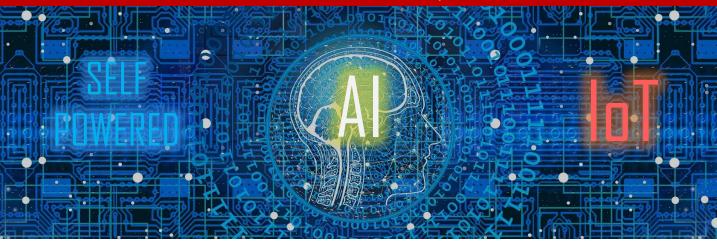


CALL FOR BOOK CHAPTER ABSTRACTS

Self-Powered AloT Systems



The combination of IoT for sensing and aggregation of data from the surroundings and AI for analysis and decision making will expand the cyber-physical intelligence towards achieving complete autonomy. However, as the deployment of the sensors become increasingly ubiquitous, there will be massive amount of sensor data aggregation and analyses for autonomous decision making capabilities of AIoT products. This calls for substantial research and product development in self-powered technologies such as energy harvesters, super capacitors, energy storage devices at the energy generation and storage side and energy efficient technologies such as ULP microcontrollers, ULP microprocessors, ULP smart sensors and actuators at the energy consumption side. The proposed book focuses on the design principles of building these self-powered AIoT applications and their subsequent deployment. The vision of this book is to disseminate knowledge and key research findings that are essential to build total autonomous systems.

Indicative Themes for chapters

1.Concept of IOT

Introduction to AloT, Need for Al in Edge computing, Trends in Distributed computing, Integration of Al in SOCs, Overview of convergence of Al in IoT.

2.Concept of self-powered systems

Powering ULP devices by Energy harvesting, Powering Data Centers using renewables, Self powered sensors and actuators, IOT protocols and architecture for energy efficiency and energy harvesting

3. AloT Enabling technologies

Edge computing devices, Energy storage and energy management for edge computing, AI in edge computing, Trends in AI based ULP microprocessors and microcontrollers, Integration of AI in cyber physical domain

4.AloT applications

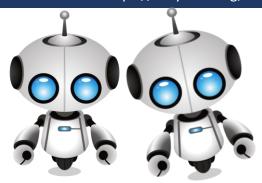
Case studies-AloT Implementation - opportunities and challenges, Economics and business viabilities of AloT Implementation, Business models for AloT implementation, AloT integration with business intelligence and Block chain

Call for Abstracts

Max. length: About 250 - 500 words

Last date of submission of Abstracts: 15 May 2021

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