Tutorial T1

Ambient Intelligence through Internets-of-Things – An Application Development Approach

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Abstract

World is increasingly automated, efficiency conscious, needing to face new realities of security, optimal resource utilization and consumer centric – making cost-performance balance more essential than ever. One time tested approach to new solutions is through more efficient data processing and it continues to be pursued by many. The paradigm shift that will not only make this data processing more effective but importantly, heralds an inflection point in solution realization is through intelligent control – and this will be the game changer, rainmaker for the next wave of development.

What determines how effective ‘how to achieve’ a goal is the awareness of context - what to do, why, under what conditions, in what ecosystem, to achieve what. This is most effectively realized by intelligent embedded control. And, the game changing technology that is the heart of intelligent control is Wireless Sensor Networks (WSN). WSN is strongly identified as among the most influencing technologies over the coming decade. This domain is at the inflection point – at the curve of hockey stick, and India is at an unique position never before seen in the modern world’s history – never before was a single market is the source for resources, source for development and of course as a end market! India can define the solutions, develop the solutions, deploy the solutions – for global markets and for itself. In short it signifies never before opportunity for India.

Here, an effort is made to make attendee design community ready to play pivotal role in this emerging revolution – to introduce the domain, remove the barriers, detail the engineering aspects, discuss some of the solutions, deliberate the future challenges and opportunities

Speaker Biographies

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