

Techerati, U.K.: Cyber-Physical Systems Explained



“It is safe to say that humans are facing a long-standing period of disruption. There is no denying or avoiding the growing concern on how this could ultimately affect our lives,” writes Vivek Daga, Country Head, UK and Ireland. “Realistically, the only way to remain one step ahead is to embrace our digital future.”

Excerpts from Techerati's article:

“Cyber-physical Systems (CPS) are a mix of computation, networking and physical processes, in which the embedded computational algorithms and networks have the power to monitor and control the physical components.

As this kind of technology continues to become more integrated into our everyday lives, here are four areas of CPS we can expect to come to the fore:

- Swarm intelligence – an emerging field in AI that combines the power of many ‘minds’ into one, allowing the overall system to be smarter, faster, more insightful and creative.
- Tactile internet – the next generation of connectivity that allows remote, real-time physical interactions over networks.
- Edge computing – these systems will form the basis for the smooth functioning of CPS by bringing together AI, machine learning and real-time decision making closer to where data is produced.
- Secure internet of things – securing against cyber attacks would involve building middleware that facilitates secure integration of legacy and IoT systems in enterprise networks that learn automatically over time.”

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