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Special Issue on Cyber-Physical Systems

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Wireless networking, sensing, computing and control advances have recently changed the way in which society interacts with the physical world. There is an explicit cyber component that is deeply embedded in the physical-world (human, infrastructure and platforms) to create a tightly coupled system that has the potential to enhance human safety, mission objectives and system efficiency multiple folds. Emerging from such a cyber-physical system (CPS) view of the engineered world is a wide array of new applications in critical infrastructures such as transportation, medical, energy and manufacturing sectors.

The objective of this special issue is to address theoretical foundations, design methods, deployed systems and education which can realize the shift from solutions which focus only on cyber or physical aspects independently towards a holistic cyber-physical approach and advance state-of-the-art. The special issue will discuss some significant advances in the science of CPS, as well as in the practice of developing such systems that can help to realize some of the common goals of two or more CPS sectors. The special issue will include current and future research directions in CPS in aerospace, automotive, medical, energy and other sectors such as manufacturing.

IMPORTANT DATES

- Manuscript submission deadline: ~~February 1, 2011~~ **March 30, 2011, 23:59pm PST (Extended deadline)**
- Reviews sent to authors: **June 8, 2011**
- Revisions and camera-ready paper due: **July 6, 2011**
- Tentative publication date: **December 2011**

Manuscript submission instructions:

Submit manuscripts: <http://mc.manuscriptcentral.com/pieee>

Submitted paper manuscripts must meet the following restrictions: no longer than 12 double column IEEE journal pages, including figures, references and authors biographies; should contain a right balance between tutorial state-of-the-art exposition and research; must be accessible to the broad readership of Proceedings of the IEEE.

Submitted manuscripts must not be previously published elsewhere or currently under review for any other publication. Please direct any questions about the manuscript submission process to rp3@uw.edu or radhakrishna.sampigethaya@boeing.com.