



## Call for Papers



# IEEE/ACM First International Conference on Cyber-Physical Systems (ICCPS)

*Sponsored by the*  
ACM Special Interest Group on Embedded Systems (SIGBED)  
IEEE Technical Committee on Real-Time Systems (TCRTS)

April 13-14, 2010

Stockholm, Sweden, in conjunction with CPS Week 2010 - <http://www.cpsweek2010.se>

<p><b>General Chair</b> Janos Sztipanovits</p> <p><b>Program Chair</b> Raj Rajkumar</p> <p><b>Program Committee</b> Karl-Erik Årzén Antoine Girard Stefan Kowalewski Bruce Krogh Edward Lee Insup Lee Al Mok Alberto Sangiovanni-Vincentelli Lui Sha Kang Shin Jack Stankovic Wayne Wolf</p> <p><b>ICCPS Steering Committee</b> Karl-Erik Årzén Bruce Krogh Raj Rajkumar (Chair) Jack Stankovic Claire Tomlin Wayne Wolf</p>	<p>Cyber-physical systems are systems with a tight coupling of the cyber aspects of computing and communications with the physical aspects of dynamics and engineering that must abide by the laws of physics. The objective of this conference is to be a primary forum for reporting state-of-the-art advances and innovations in theoretical principles, tools, applications, systems infrastructure, and testbeds for cyber-physical systems.</p> <p>Contributions should emphasize the cross-cutting, system-wide themes. Sectors of applicability include, but not be limited to, transportation (automotive, aerospace, marine, rail), SCADA systems (electricity generation including smart grids and the like, other utilities), smart physical infrastructure (smart bridges, buildings and highways), energy efficiency (energy-aware buildings), environmental monitoring, defense systems, intelligent medical devices, tele-operations and robotics.</p> <p>Submissions must report results from original research and not have been submitted to or published in other conferences or journals. Submissions must be a maximum of 10 pages, in 2-column format, and use font sizes of no less than 10 pt. Instructions for submission can be found at <a href="http://www.iccps.org">http://www.iccps.org</a>.</p> <p>Each submission will be reviewed using a peer-review process led by the ICCPS 2010 Program Committee. The review process will be typical of high-quality IEEE and ACM conferences. A Proceedings released at the conference will have a compilation of the accepted papers.</p> <p>Topics of interest include (but are not limited to) the following:</p> <ul style="list-style-type: none"> <li>• Theoretical foundations of CPS</li> <li>• Modeling, Analysis and Synthesis Techniques</li> <li>• Architectures for Cyber-Physical Systems</li> <li>• Building blocks for Cyber-Physical Systems</li> <li>• Systems Abstractions, Services and OS Support</li> <li>• Evaluation approaches and metrics</li> <li>• Novel CPS applications</li> <li>• Detailed Case Studies</li> </ul>
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### Important Dates:

<b>Submission Deadline:</b>	<b>December 18, 2009</b>
Acceptance Decisions:	January 25, 2010
Final Manuscript:	February 15, 2010