With the rapid growth in computing and communications technology, the past decade has witnessed a proliferation of powerful parallel and distributed systems and an ever-increasing demand for practice of high performance computing and communications (HPCC). HPCC has moved into the mainstream of computing and has become a key technology in determining future research and development activities in many academic and industrial branches, especially when the solution of large and complex problems must cope with very tight timing schedules. On the other hand, embedded software and systems are closely related to our daily life, which reside from smart appliances to unmanned trains. As the fastest growing industry, embedded systems will have great societal and environmental impacts. Therefore, the design and implementation of safe and efficient embedded software and systems have utmost importance. This special issue in Elsevier’s Journal of Systems Architecture will consider peer-reviewed journal versions of top papers from 17th IEEE international Conference on High Performance Computing and Communications, and the 12th IEEE International Conference on Embedded Software and Systems, two co-located conferences in New York, August 24-26, 2015, as well as other papers received from the open call.

The scope and interests of this special issue include, but are not limited to:

1) Embedded Systems, Models and Algorithms
2) Design Methodology and Tools for Embedded Systems
3) Emerging Embedded Applications
4) High Performance Embedded Computing
5) Distributed Embedded Systems
6) Embedded Systems Security
7) Cyber-Physical Systems

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**Important Dates:**

- **Paper submission:** September 10, 2015
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