



# The 1st IEEE International Conference on Networked Embedded Systems for Enterprise Applications (NESEA 2010)

Suzhou, China, November 25<sup>th</sup>-26<sup>th</sup> 2010

[www.nesea-conference.org](http://www.nesea-conference.org)

The 1st IEEE International Conference on Networked Embedded Systems for Enterprise Applications (NESEA 2010) will be held in Suzhou, China on November 25<sup>th</sup> and 26<sup>th</sup>, 2010. The conference is co-sponsored by the IEEE Computer Society.

Fundamental research from the various specializations of networked embedded systems has been applied to tackle a wide range of significant problems. However, current approaches often lack consideration of how networked embedded systems should be integrated with enterprise architectures. NESEA aims to gather the best in current expertise in this field, to drive research into the integration of embedded systems and enterprise architectures and promote the use of networked embedded systems to address critical problems facing industry such as energy monitoring and conservation.

Target specializations of networked embedded systems include: Wireless Sensor Networks, Cyber-Physical Systems, Ubiquitous Computing, Pervasive Computing and Mobile Computing.

## This conference seeks papers in the following areas:

### Networked Embedded Systems:

- Wireless Sensor Networks
- Ubiquitous and Pervasive Computing
- Mobile embedded devices

### Networking Support:

- Cost and Quality of Service aware routing protocols
- Adaptable and reconfigurable networking support.
- Service and device discovery

### Programming Abstractions:

- Component and binding models for embedded systems
- Service-Oriented architectures for embedded systems
- Policy-based management of embedded systems
- Macro-programming languages

### Middleware:

- Middleware for networked embedded systems
- Integration of embedded systems with SOA.
- Integration of embedded systems with business logic

### Development Support:

- Testing, modeling and simulation tools
- Deployment support for networked embedded systems
- Deployment planning and support

### Business Applications of Embedded Systems:

- Energy monitoring and conservation
- Logistics and supply chain monitoring
- Smart electrical power grids
- Medical sensor networks

## Organization:

**General Co-Chair:** Kevin Lee, Murdoch University, Australia  
[kevin.lee@murdoch.edu.au](mailto:kevin.lee@murdoch.edu.au)

**Local Chair:** Danny Hughes, XJTLU  
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- Azer Bestavros, Boston University, USA
- James Broberg, University of Melbourne, Australia
- Geoff Coulson, Lancaster University, UK
- Dan Fitton, University of Central Lancashire, UK
- Kiel Gilleade, Liverpool John Moores University, UK
- Jochen Haller, SAP, Germany
- Kristof Van Laerhoven, Darmstat, Germany
- Neil Loughran, Sintef, Norway

**General Co-Chair:** Christophe Huygens, K.U. Leuven, Belgium  
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- Duncan McCaffery, Insiris Ltd., UK
- Sam Michiels, K.U. Leuven, Belgium
- Marimuthu Palaniswami, University of Melbourne, Australia
- Omer Rana, Cardiff University, UK
- Erel Rosenberg, Correlation Systems, Israel
- Jo Ueyama, University of São Paulo, Brazil
- Daniel Veit, University of Mannheim

## Instructions for Authors:

Submissions should be high quality, original work. All submissions will be subject to double-blind peer review. Paper submissions should be between six to eight pages and formatted in double-column IEEE conference format. Papers will be indexed by the IEEE Computer Society.

Submission is via easychair, see [www.nesea-conference.org](http://www.nesea-conference.org)  
Enquires should be directed to [mail@nesea-conference.org](mailto:mail@nesea-conference.org)

## Venue:

The conference will be held at the Xi'an Jiaotong-Liverpool University International Conference Center and Hotel, which is located in Dushu Lake Higher Education Town, in Suzhou, China.



Suzhou is conveniently located 35 minutes from downtown Shanghai by express train and the nearby Shanghai Pudong International Airport.

## Important Dates:

**Submission Deadline: September 20<sup>th</sup> 2010 (Extended)**

**Camera Ready and Registration: October 24<sup>th</sup> 2010**

**Notification: October 10<sup>th</sup> 2010**

**Conference: November 25<sup>th</sup> – 26<sup>th</sup> 2010**