



## Call for papers

Special Issue on

# 'Simulators for Engineering Education and for Professional Development'

Guest Editors

**Avraham Shtub, Avraham Parush and Thomas Hewett**

Contributions are invited for a special issue of the **International Journal of Engineering Education** (IJEE)

Modern technology has enabled quantum changes in simulation fidelity and capabilities. The use of simulators for training, teaching, and learning purposes, becomes pervasive in many domains and disciplines. The goal of this special issue is to provide a series of papers addressing the current state of the art in simulators and emerging trends in the development and use of simulators for educating and training engineers, both as students and as practicing professionals. We invite papers addressing the development and evaluations of simulators, the design of human – machine interactions for simulation, learning, forgetting, and transfer effects with simulations, case studies, teaching materials and interdisciplinary courses and activities that make use of simulators.

**Topics may include but are not limited to:**

- Design of and innovations in simulators and scenarios for simulation
- Design and evaluation of human – machine interaction in simulation
- Use and evaluation of history recording mechanisms and innovative visualizations
- Development and assessment of courses and/or teaching materials based on simulators
- Development and assessment of web-based simulators
- Development and assessment of individual and group simulators
- Theoretical issues in simulator-based learning, forgetting, and transfer of learning
- The unique challenges in developing and using simulators for engineering education
- The acquisition of skills and meta-skills in simulator-based learning
- Case studies of simulators in use and of their impact on engineers.

## Submission Deadlines

|                                 |  |
|---------------------------------|--|
| <b>May 1 2007</b>               | Submission of abstract <b>EXTENDED</b>     |
| <b>September 1 2007</b>         | Notification of reviewers' feedback        |
| <b>January 1 2008</b>           | Submission of draft manuscript             |
| <b>May 1 2008</b>               | Notification of reviewers' feedback        |
| <b>July 1<sup>st</sup> 2008</b> | Submission of revised accepted manuscripts |

Submissions should be sent electronically in MS-Word or RTF format to the coordinating guest editor

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Layout and format should conform to the guidelines given in the IJEE Notes for Contributors

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