

**Editor: Ahmad Ibrahim**

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Design-Centric Engineering Education**

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# The International Journal of ENGINEERING EDUCATION

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Toronto, Ontario, Canada  
E-mail: [ijee.editor@gmail.com](mailto:ijee.editor@gmail.com)

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*A selection of papers accepted for publication*

**Devasia and Borgford-Parnell**—Integrating Nanopositioner Design Issues into an Existing Automatic Controls Course through Homework

**Xie and Lee**—Integrating Nanopositioner Design Issues into an Existing Automatic Controls Course through Homework

**Magana *et al.***—An Exploratory Study of Engineering and Science Students' Perceptions of nanoHUB.org Simulations

**Magana *et al.***—Student Views of Engineering Professors Technological Pedagogical Content Knowledge for Integrating Computational Simulation Tools in Nanoscale Science and Engineering

**Chari *et al.***—Identifying Knowledge, Skill and Competence for Nanoscience and Nanotechnology Research: A Study of Postgraduate Researchers' Experiences

**Toth and Jackson**—Pedagogical Challenges for Nanotechnology Education: Getting Science and Engineering Students to Examine Societal and Ethical Issues

**Sockman *et al.***—Student Understanding of Nanoscience through the Gecko's Surface to Surface Interactions

**Chen**—Designing Nano-biotechnology Summer Camp with Experiential Learning Theory

**Moraes**—Pop Culture: A Soap Bubble-based Framework for Nanoeducation Outreach

**Atman *et al.***—The Center for the Advancement of Engineering Education: A Review of Results and Resources

**Meyers *et al.***—I2D2: Imagination, Innovation, Discovery, and Design

**Motahhari-Nejad *et al.***—A Global Approach for Reforming Engineering Education in Iran

**Garcia *et al.***—Educational Software for Diesel Engine Simulation Performance and Parametric Analysis

**Ryokai *et al.***—Mobile Learning with the Engineering Pathway Digital Library

**Abdullah *et al.***—The Mismatch between Higher Education and Employment in Malaysian Electronic Industry: An Analysis of the Acquired and Required Competencies

**Mihajlović and Čupić**—Software Environment for Learning and Knowledge Assessment Based on Graphical Gadgets

**Duman and Ergun**—Fluid Mechanics Experimental Setup Designed and Built by Graduate Student for Undergraduates

**Fang**—A Student-Centered Active Learning Approach to Teaching Grant Proposal Writing in a Ph.D. in Engineering Education Program

**Masek and Yamin**—A Comparative Study of the Effect of Problem Based Learning and Traditional Learning Approaches on Students' Knowledge Acquisition

**Tabsh *et al.***—Comparison of Civil Engineering Curricula in the Arab World