

IJEE

Contents Vol 26-5

Part I Special Issue

Applications of Engineering Education Research—Part 2 Building Engineering Communities

Guest Editors

Susan M. Lord—University of San Diego, San Diego, CA, USA

Cynthia J. Finelli—University of Michigan, Ann Arbor, MI, USA

[Contents](#)

[Covers and Abstracts](#)

Ahmad Ibrahim	Editorial
Susan M. Lord and Cynthia J. Finelli	Guest Editorial
Maria Dobryakova and Isak Froumin	Higher Engineering Education in Russia: Incentives for Real Change
Lisa C. Benson, Kurt Becker, Melanie M. Cooper, O. Hayden Griffin and Karl A. Smith	Engineering Education: Departments, Degrees and Directions
Natalie A. Tran and Mitchell J. Nathan	The Effects of Pre-Engineering Studies on Mathematics and Science Achievement for High School Students
Stacy S. Klein-Gardner, Sean P. Brophy, Melanie J. Aston and Cynthia B. Paschal	Biomedical Imaging Education: Safe, Inexpensive Hands-On Learning
Glenn W. Ellis, Alan N. Rudnitsky and Mary A. Moriarty	Theoretic Stories: Creating Deeper Learning in Introductory Engineering Courses
Teri Reed-Rhoads, P. K. Imbrie, Kamyar Haghghi, David F. Radcliffe, Sean Brophy, Matthew W. Ohland and Eric Holloway	Creating the Ideas to Innovation Learning Laboratory: A First-Year Experience Based on Research
Lisa C. Benson, Marisa K. Orr, Sherrill B. Biggers, William F. Moss, Matthew W. Ohland and Scott D. Schiff	Student-Centered Active, Cooperative Learning in Engineering
Shane Brown and Cara Poor	In-Class Peer Tutoring: A Model for Engineering Instruction
Martin McCarthy	The Application of Social Learning Theory and Communities of Practice to a Complex, Ill-Defined Domain in Engineering
Denis Gillet	Tackling Engineering Education Research Challenges: Web 2.0 Social Software for Personal Learning
David Franquesa, Josep-Llorenç Cruz, Carlos Alvarez, Fermín Sánchez, Agustín Fernández and David López	The Social and Environmental Impact of Engineering Solutions: from the Lab to the Real World
Donald D. Carpenter, Trevor S. Harding, and Cynthia J. Finelli	Using Research to Identify Academic Dishonesty Deterrents Among Engineering Undergraduates

Part II

Contributions in:

Qualifications recognition, students attitudes, motivational factors—learning quality evaluation, Evaluation of engineering schools performance, entrepreneurship,

**Computer Integrated Manufacturing, Control Systems laboratories and simulations,
Power Hydraulics, Thermal Modeling, Capstone Projects, Signal Processing****Marcia R. Friesen**[Development of an Engineering Qualifications Recognition Program for Immigrant Professionals: a Case Study](#)**Qaiser Malik, Matthew J. Koehler,
Punya Mishra, Neeraj Buch, Michael Shanblatt and Steven
J. Pierce**[Understanding Student Attitudes in a Freshman Design Sequence](#)**Hoda Baytiyeh and Mohamad K. Naja**[Students' Enrollment in Engineering: Motivational Factors](#)**Miladin Stefanovic, Danijela Tadic,
Slavko Arsovski, Zora Arsovski
and Aleksandar Aleksic**[A Fuzzy Multicriteria Method for E-learning Quality Evaluation](#)**Elif Kongar, Jani Macari Pallis
and Tarek M. Sobh**[Non-parametric Approach for Evaluating the Performance of Engineering Schools](#)**Miri Yemini and Jehuda Haddad**[Engineer-Entrepreneur: Combining Technical Knowledge with Entrepreneurship Education—The Israeli Case Study](#)**Mustafa Yüzükirmizi**[Educational Computer Integrated Manufacturing \(CIM\) Labs in Turkey: A Field Study](#)**T. D. Murphey and J. S. Falcon**[Programming from the Ground Up in Control Laboratories](#)**Michael A. Fleming and Robert G. Landers**[Design and Implementation of a Linear Axis Rapid Development System for Education](#)**Raúl Barrio, Eduardo Blanco, Jorge Parrondo
and Joaquín Fernández**[Using Home-made Virtual Labs in Higher Education: An Experience in Teaching Power Hydraulics](#)**Juan-Jesus Luna-Rodriguez, Daniel Tocados-Castro, Marta
Varo-Martinez, Pilar Martinez-Jimenez and Vicente
Barranco-Lopez**[Simul-Therm: A MATLAB/Simulink Blockset of Thermal Modelling and Simulation for Engineering Education](#)**Hussain Al-Rizzo, Seshadri Mohan, Melissa Reed, Dwayne
Kinley, Zak Hemphill, Chris Finley, Amanda Pope, Doug
Osborn and Wayne Crolley**[Directional-Based Cellular e-Commerce: Undergraduate Systems Engineering Capstone Design Project](#)**Begoña García Zapirain, Amaia Méndez Zorrilla Ibon Ruiz
Oleagordia and Javier Vicente Sáez**[Developing Signal Processing Applications using MultiPAS in Accordance with the Bologna Requirements](#)[Guide for Authors](#)**CLICKY ANALYTICS**