Contents

Contributions in: PBL, Information Literacy, Project Management, Civic Mindedness, Idea Generation, Simulation and Animation, Engineering Dynamics, Problem Solving, Motivation, Neuroeducation, STEM, Diversity, Cooperative Learning, Accreditation, Competencies, Manufacturing Engineering, Smart City, Disaster Prevention, Life-Long Learning, Class Scheduling, Computer Engineering, Lecture Delivery Methods

Ahmad Ibrahim	1	Editorial
Davy D. Parmentier, Bram B. Van Acker, Jan Detand and **Jelle Saldien**	2–18	Framework to Redesign Products with Focus on Design for Assembly Meaning: A PBL Case Study
Lisa B. Bosman, Kurt Paterson and **Margaret Phillips**	19–30	Integrating Online Discussions into Engineering Curriculum to Endorse Interdisciplinary Viewpoints, Promote Authentic Learning, and Improve Information Literacy
Luis Ballesteros-Sánchez, Isabel Ortiz-Marcos and **Rocío Rodríguez-Rivero**	31–43	Investigating the Gap Between Engineering Graduates and Practicing Project Managers
Justin L. Hess, Athena Lin, Grant A. Fore, Tom Hahn and **Brandon Sorge**	44–64	Testing the Civic-Minded Graduate Scale in Science and Engineering
Marwa Hassan Khalil	65–85	Idea Generating Techniques in Architectural Design Education: Exploring Students' Perceptions
Ning Fang and **Seyed Mohammad Tajvidi**	86–95	The Effects of Computer Simulation and Animation (CSA) on Student Learning and Problem Solving in Engineering Dynamics
Rachel McCord Ellestad and **Holly M. Matusovich**	96–114	Metacognitive Engagement During Problem Solving While in Naturalistic Homework Study Groups
Fermín Sánchez-Carracedo, Esther Trepat and **Alejandra Barba-Vargas**	115–132	Successful Engineering Lecturing based on Neuroscience
Desmond Bonner and **Michael C. Dorneich**	133–146	Increasing Female Middle School Student Interest in STEM: Requirements for Game-Based Learning Applications
Walter C. Lee, Ben D. Lutz, Holly M. Matusovich and **Sreyoshi Bhaduri**	147–162	Student Perceptions of Learning about Diversity and its Place in Engineering Classrooms in the United States
José Alberto Benítez-Andrades, Isaías García-Rodríguez, Carmen Benavides, María Mercedes Reguera-García and **Pilar Marqués-Sánchez**	163–171	Cooperative Work among Computer Engineering and Health Sciences Undergraduates: A Case Study
Muhammad Rashid	172–184	A Systematic Approach of Data Preparation for ABET Accreditation
Wen-Jye Shyr, Chia-Hung Chen, Yu-Xiang Wang, Chen-Liao Chen, Der-Fa Chen and **Chieh-Lun Cheng**	185–194	Establishing Competence Indicators to Guide Teaching Automotive Coating Techniques
Gregory Theyel, Allan Baez Morales, Evangelia Bouzos and **Prashanth Asuri**	195–203	Enhancing Senior Engineering Student Projects by Incorporating Needs Assessment, Manufacturing Engineering, and Pilot Testing
Mirjana Kranjac, Srdjan Tomic, Jakob Salom, Tatjana Ilic-Kosanovic, Damir Ilic and **Stanko Bulajic**	204–214	New Methodology of Teaching a Smart City Concept: A Case Study
Wen-Jye Shyr, I-Min Chen, Chun-Min Ho and **Jing-Chuan Lee**	215–222	Teaching Geophysics of Earthquakes and Building Structures for Disaster Prevention: A Case Study
Anne Wallisch, Juan Carlos Briede-Westermeyer and **Marianela Luzardo-Briceño**	223–243	Fostering User-Empathy Skills of Engineering Students by Collaborative Teaching
Fabrizio Vergine, Lucía Capdevila and **Nikos J. Mourtos**	244–269	Assessing Students' Ability to Develop a Systematic Approach to Learning
Sung-Hee Jin, Mina Yoo, Xuenan Cui and **Ji-Eun Choi**	270–277	Impact of Class Scheduling on Learning Achievement of Computer Engineering Students
Jacek Uziak, M. Tunde Oladiran, Kurt Becker and **Marian Gizejowski**	278–286	Assessing Chalk & Talk and Power Point Presentation Techniques for Teaching Engineering Courses
Andrés Díaz Lantada and **José L. Martín Núñez**	287–297	Strategies for Continuously Improving the Professional Development and Practice of Engineering Educators
	298	Guide for Authors