Contents

Contributions in: PBL, Self-Regulated Learning, Engineering Design,
Leadership, Women in Engineering, Artificial Intelligence, Mastery Learning,
Building Information Modelling, STEM, Self Efficacy, Peer Learning,
Engineering Competitions, Assessment, Teacher Autonomy, Spreadsheets,
Professional Identity, COVID-19, First Year Engineering, Mental Health,
Graduate Students, Empathy, Rural and Indigenous Students, Online Learning

Editorial Ahmad Ibrahim	1307
The Relationship Between Self-Regulated Learning Behavior and Attitudes in Project-Based Learning Classes: A Case Study Yu-Sheng Lin and Yu-Hsuan Lin	1308–1317
Design of Arduino Uno Electronic Module for Digital Measurement of Rotational Speed in Agricultural Machinery Actuator Systems Naji Mordi Naji Al-Dosary, Abdulrahman Ibrahim A. Alzughaibi and Ahmed Mahmoud Zeyada	1318–1329
The Glue in Leadership: Investigating how Women Leaders in Engineering Education Value People and Connections Sophia Vicente, Cheryl Beauchamp, Janice L. Hall, Holly M. Matusovich, Stephanie G. Adams and Cheryl Carrico	1330–1342
Integration of Artificial Intelligence and Machine Learning Content in Technology and Science Curriculum Shao-Hsun Chang, Kai-Chao Yao, Cheng-Yang Chung, Sheng-Chieh Nien, Yao-Ting Chen, Wei-Sho Ho, Teng-Chiao Lin, Fu-Chi Shih and Tung-Chin Chung	1343–1357
A Systematic Literature Review for Mastery Learning in Undergraduate Engineering Courses Carlos L. Pérez and Dina Verdin	1358–1385
Closed-Loop Management System for Design of a Building Information Modeling Curriculum to Meet Industry Requirements Xuefeng Zhao, Wangbing Li, Qiwen Luo, Jiaqi Liu, Zhe Sun, Jun Sun, Heling Zhu, Chun Huang, Mengxuan Li and Weiyu Ji	1386–1399
Evaluation of Various Aspects of the 11th Grade Engineering Curriculum: A Mixed-Methods Study Yousef F. Alfarraj and Adel R. Althubyani	1400–1416
Impact of Peer Learning on the Academic Performance of Civil Engineering Undergraduates: A Case Study from China Bin Sha, Xiaoyu Guo, Qinfang Zhong and Houren Xiong	1417–1433
A Comparative Case Study of Engineering Competitions between China and the United States Lin Yuan and Qing Lei	1434–1449
A Systematic Review of PBL Literature: In Search of Implementation Guidelines for Engineering Situated Problem Design, Facilitation, and Assessment Andrew Olewnik, Amanda Horn, Laine Schrewe and Scott Ferguson	1450–1463
Relation between Teacher Autonomy Support, Student Self-Efficacy, and Behavioral Engagement: A Moderated Mediation Model in Project-Based Team Learning Shaoyan Wu, Bixuan Zhang and Tingting Cao	1464–1477
Investigating Factors Influencing Spreadsheets Competency of Undergraduates: Domain-Based vs Tool-Centered Learning Approach Lena Djordjević Milutinović, Lazar Raković, Radul Milutinović and Marton Sakal	1478–1488
Impact of Practical Teaching for the Professional Identity Development of Engineering Students Fusheng Zhu, Hongjie Zheng, Yujia Huang, Fei Tang and Ying Wang	1489–1498
Grades and Grade Anomalies Before, During, and After Remote COVID-19 Instruction for First-year Engineering Majors: Overall Trends and Gender Inequities Alysa Malespina and Chandralekha Singh	1499–1512
Overlapping Coping Mechanisms: The Hidden Landscapes of Stress Management in Engineering Doctoral Programs Gabriella M. Sallai, Kanembe Shanachilubwa and Catherine G. P. Berdanier	1513–1530
Comparing Empathy Between Male and Female Undergraduate Engineering Students Justin L. Hess	1531–1541

Designing Elementary Digital Game-based Engineering Interventions for Rural and Indigenous Students Amanda Obery, Nicholas Lux and Paul Gannon	1542–1555
Perceived Task Value of Engineering Undergraduates During COVID-19 Pandemic Jonathan D. Anderson, Oenardi Lawanto, Brian Mark Crookston and Wade H. Goodridge	1556–1565
Effects of High School Engineering Courses on Engineering Recruitment and Specific Discipline Selection Kristin Sandberg, Jean Mohammadi-Aragh, Jenna Johnson, Shane Brauer and Deborah Eakin	1566–1577
A Comparative Quantitative Study of Engagement, Learning Environment, and Educational Outcomes of High-Achieving Engineering Students Ibukun Osunbunmi and Ning Fang	1578–1587
Guide for Authors	1588