

<b>Editorial</b>	1409–1410
<i>Ahmad Ibrahim</i>	
<b>Guest Editorial</b>	1411
<b>Special Issue on: Artificial Intelligence in Engineering Education – Part I</b>	
<i>Andrés Díaz Lantada and José Luis Martín Núñez</i>	
<b>AI-Powered Telepresence Laboratory: Generative AI Co-Pilot for Automated Experiment Guidance and Instruction</b>	1412–1432
<i>Phumrapee Meyer, Pravee Kruachottikul, Chakkrit Tantithamthavorn, Kittikul Kovitangoon, Ratchatin Chancharoen and Gridsada Phanomchoeng</i>	
<b>Federated Learning for Accessible Engineering Education: A Survey on AI-Driven Personalization for Students with Disabilities</b>	1433–1446
<i>Belghachi Mohammed and Seddiki Nouredine</i>	
<b>Implementing Artificial Intelligence in Higher Education: A Pathway to Effective PBL</b>	1447–1461
<i>Silvia Lavado-Anguera, María-José Terrón-López and Paloma-J. Velasco-Quintana</i>	
<b>Exploring GenAI Image Generation in Engineering: A Thematic Analysis of Ethical and Representational Biases</b>	1462–1472
<i>Zachery Quince, Kathy Petkoff, Anna Lidfors Lindqvist, Emily Faulconer, Winn Chow and Sasha Nikolic</i>	
<b>AI-Driven Predictive Models and Chatbots for Early Intervention and Student Success in Higher Education: A Systematic Review</b>	1473–1488
<i>Felipe Emiliano Arévalo-Cordovilla and Marta Peña</i>	
<b>SHAP Analysis of Software Engineering Capstone Team Building Criteria</b>	1489–1501
<i>M. Khalid Shaikh and Mirka Saarela</i>	
<b>Integrating Generative AI into Engineering Education: A Case Study in Web Application Development</b>	1502–1514
<i>Roberto Barchino, Jose A. Medina, Rosa Estriegana and M. Lourdes Jiménez</i>	
<b>Examining Engineering Students' Academic Performance Using Machine Learning Algorithms as a Data Analysis Tool</b>	1515–1531
<i>Carlos Felipe Rodriguez-Hernandez, Vinay Ram Gazula and Prateek Shekhar</i>	
<b>Enhancing AI Algorithm in Digital Signal Processing Education, Through Extreme Programming: Constructive Approach in IoT Context</b>	1532–1546
<i>Mario Stojanović, Ana Matović, Marija Matović, Edis Mekić, Vanja Baždar and Zakaria Maamar</i>	
<b>AI-Based Performance and Grade Prediction for Undergraduate Industrial Engineering Students in Machine Component Design Course</b>	1547–1555
<i>Amjad Alsakarneh, Abedallah AlKader, Mo'en Alnasraween, Hamed Mubarak Al-Awidi and Alaa A. Towaiq</i>	

## Section II

### Contributions in: Attitude Scale, Digital Design, Teamwork, Capstone Projects, Creativity, Entrepreneurship, Identity, First-Year Engineering, Doctoral Education, Adaptive Learning, Faculty Development, Industry Academia Alignment

<b>Development and Validation of an Attitude Scale toward Generative AI for University Students</b>	1556–1568
<i>Yao-Chung Cheng, Chien-Yu Lu, Kai-Jie Chen and Chuan-Tsai Lin</i>	

<b>Integrating Industrial Tool-Based Formal Verification into ECE Design Verification Curriculum</b>	1569–1584
<i>Shruti Sharma, Mohamed Ghonim, Xiaoyu Song, Jin Zhang and Andrew Greenberg</i>	
<b>Developing Engineering Undergraduates' Professional Skills through Capstone Projects</b>	1585–1592
<i>Francisco Cima, Pilar Pazos and Ana María Canto-Esquivel</i>	
<b>Unpacking the Creativity Paradox: A Systems Analysis of Misalignment, Barriers, and Opportunities in Graduate Engineering Education</b>	1593–1604
<i>Autumn R. Deitrick and Catherine G. P. Berdanier</i>	
<b>Converting Students' Entrepreneurial Self-Efficacy into Tangible Entrepreneurial Actions</b>	1605–1615
<i>Lili Feng, Serrene Leong, Kenny S. L. Cheah and Jianbing Deng</i>	
<b>Engineering Identity Formation across the Undergraduate Years</b>	1616–1630
<i>M. Jean Mohammadi-Aragh, Rachel L. Kajfez, Abigail Clark and Soundouss Sassi</i>	
<b>Examining Qualifying Exams: A Qualitative Case Study of Graduate Students and Faculty Perspectives</b>	1631–1642
<i>Mayra S. Artiles and Kai Jun Chew</i>	
<b>A Depth of Study Analysis on First-Year Engineering Quantitative Literacy Tasks</b>	1643–1652
<i>Raenita A. Fenner, Peggy O'Neill, Elliot P. Douglas and Kerrie Douglas</i>	
<b>Design and Implementation of an AI-Enhanced Teaching of Signals and Systems Course</b>	1653–1664
<i>Xin Xu, Dong Chen, Lei Yang, Biao Wang, Shuangbao Shu, Chengliang Pan, Jin Zhang and Haojie Xia</i>	
<b>Model to Assist in the Optimization of Learning Environments for Engineering Teaching (OLEET)</b>	1665–1674
<i>Kristi J. Shryock, Lance L.A. White and Karan L. Watson</i>	
<b>Enhancing Learning and Deliverable Quality in Software Engineering through Oral Inquiry Audits</b>	1675–1687
<i>Pauline C. Wade, Hillary E. Merzdorf and Tracy Hammond</i>	
<b>Guide for Authors</b>	1688