

# Editorial

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The current issue of the IJEE is the final one of the year 2020; it completes 36 years of serving the international engineering education community. The Journal was established and pioneered by Prof. Michael Wald who passed away in 2008. His vision persists: an independent journal that is devoted to engineering education in its widest sense with the only guidance being to humbly serve the international engineering education community. The success of the journal is based on the excellent work of authors, reviewers, and guest editors whom I wish to thank for their valuable contributions. I would like also to thank the copyeditors and typesetters for their dedication and excellent work.

This issue of the IJEE has two sections. The first is a special issue on Artificial Intelligence-Aided Engineering Education. It is guest edited by Professor José Luis Martín Nuñez, Instituto de Ciencias de la Educación, Universidad Politécnica de Madrid, and Professor Andrés Díaz Lantada, Escuela Técnica Superior de Ingenieros Industriales. I wish to express my gratitude to them for the time and effort they dedicated for this special issue.

The second section has contributions by numerous authors on varied topics related to engineering education, including: Multidisciplinary Projects, Biomechanics, Collaborative Learning, Virtual Prototyping, Industry 4.0, Engineering 5.0, Group Dynamics, Assessment, Additive Manufacturing, Ideation, Supply Chain, Building Information Modeling, Sustainability, Transportation, Teamwork, Laboratory Teaching, Fluid Mechanics, Virtual Reality, Gender, and Internet of Things. The authors are from institutions in France, China, Spain, Denmark, Malaysia, Singapore, Serbia, Australia, USA, Colombia, Iceland, and Canada.

In addition to the current special issue there were a number of special issues published throughout the year, including:

Teamwork Assessment in Engineering Education, Guest Edited by Professors Miguel Ángel Conde – Escuelas de Ingenierías Industrial e Informática, University of León, Spain and Alicia García-Holgado – GRIAL Research Group, Research Institute for Educational Sciences, University of Salamanca. Spain.

Education and Practice – How Process Matters, Guest Edited by Professor Gordon G. Krauss – Department of Engineering, Harvey Mudd College, USA.

Innovation in Applied Bioengineering Education, guest edited by Professors Faiez Alani – McMaster University, Hamilton, Ontario, Canada and Carlos Filipe – McMaster University, Hamilton, Ontario, Canada.

Maker Spaces in Engineering Education, guest edited by Pao-Nan Chou – Northern Illinois University, USA & National University of Tainan, Taiwan.

Innovative Vision for STEM Education and Teaching, guest edited by Professor Feng-Kuang Chiang – Shanghai Normal University, Shanghai, China.

In previous issues papers addressed various topics including:

Academic Outcomes, Academic Success, Accreditation, Active Learning, Aerospace Engineering, Assessment, Attrition Rate, Behavioral Factors, Biologically Inspired Design, Biomechanics, Blended Classroom, Capstone Design, Civil Engineering, Computer Engineering, Cooperative Education, Critical Thinking, Cultural Impact, Design Thinking, Diversity, Dropout Rates, Employability, Engineering Design, Engineering Education Studies, Entrepreneurship, Expert vs. Novice, First Year, Flipped Classroom, Gamification, Global Learning, Graphics Engineering, Grassroot Teams, Hidden Curriculum, Identity, Inclusivity, Industrial Engineering, Industry 4.0, Institutional Data, Instructional Change, Internship, Inverted Classroom, Knowledge Transfer, Leadership, Mathematical Modeling, Mechanical Engineering, Metacognition, Microprocessors, Motivation, PBL, Perception of Engineering, Problem Solving, Product Development, Reflective Thinking, Remote Laboratories, Research Methods, Robotics, Self-Evaluation, Simulations, Social Capital, Socialization Process, Software Testing, STEAM, STEM, Team Performance, Transnational Education, Transport Engineering, TRIZ Learning, and Writing Attitudes.

Some are interested in the ratio of citations to the number of published papers by a journal. For what it is worth, according to the Journal Citation Reports™ (JCR) this ratio for the IJEE in 2019 was 0.653. It is

worth noting that the IJEE publishes a relatively large number of well-researched papers and hence contributes substantially to such a ratio of reported citations of numerous excellent journals.

This year was quite a tough year for everyone around the world; engineering educators are no exception. I wish the coming year will be a better one for everyone; my best wishes to all for a happy and healthy New Year.

Ahmad Ibrahim