INAUGURAL EDITORIAL

Embracing a new era of engineering education: Preview of an innovative engineering education journal

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Engineering education involves teaching knowledge and principles of professional engineering practice. This includes engineering science education, engineering technology education, engineering management education, engineering cultural education (including engineering ethics), and engineering education evaluation and certification. Today, the world is facing unprecedented changes, and the development of new technologies has led to opportunities for engineering education in China and worldwide. New technologies such as artificial intelligence (AI), Fifth-Generation (5G), the Internet of Things (IoT), cloud computing, and blockchain are vigorously developing, leading to a new industrial revolution. Governments of various countries have launched strategic deployments, such as the United States’ “Industrial Internet Strategy”, Germany’s “Industry 4.0”, and Japan’s “Japan Resurgence Strategy”, which will have a significant influence on the development of engineering education and bring significant opportunities.

Since the reform and opening-up of the last century, China’s higher engineering education has had major achievements, as shown by the rapid expansion of the educational scale, positive changes in educational structure, a significant increase in education investment, improved education quality, active promotion of education and teaching reforms, and international cooperation. Chinese scholars are publishing more articles in this field, and its academic influence is constantly increasing.

Global engineering education is full of opportunities and challenges. Engineering science and technology have increasingly become core forces in sustainable global economic, social, and environmental development. However, the development of engineering education has been extremely uneven worldwide. Underdeveloped countries and regions face serious shortages of engineering skills and engineers. To bridge these gaps, it is necessary for the industry and academia to jointly call for and strive for closer, more visionary and action-oriented partnerships. We must urge policymakers, the engineering profession, and the education sector to pay more attention to the quality and fairness of engineering education and build an equal, inclusive, and win-win engineering education community.

Against this backdrop, the Engineering Education Review (EER), a forward-looking, authoritative, international, and professional journal, has officially been launched. EER is a review-type journal characterized by systematic reviews of this disciplinary field and important research work. It comprehensively reflects the progress and academic history of the industry and inspires academic innovation. EER will provide detailed and comprehensive retrospective or prospective summaries of the most representative research progress and latest achievements in engineering education, showcasing the latest achievements and experiences in the field worldwide. Through EER, it will be possible to accurately grasp the development trends and frontiers of international engineering education, guide the transformation of the engineering education paradigm, improve academic discourse and practical systems, and enhance engineering education research. EER will fill the gap in English review journals on engineering education worldwide and build an international high-end communication platform for engineering education scholars. The journal will include sections such as editorials.

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reviews, research articles, research highlights, letters and commentaries, interviews, forums, special topics, and continuing education. I am honored to be recommended as the Editor-in-Chief of the journal, and I will make efforts to gather top scholars in the field, national and international, to form a high-level editorial board. The EER will benchmark top journals worldwide, implement a strict peer review process and high publishing standards, and ensure the high quality of the journal. You are welcome to browse our journal and I hope you enjoy it.

DECLARATION

Conflict of Interest

Wang SY is the Editor-in-Chief of the journal. The article was subject to the journal’s standard procedures.

REFERENCES