Guest Editorial Preface

Special Issue on Engineering and Technology Education Quality Assurance:
Embracing the Future

Le Huy Tung, Hanoi University of Science and Technology (HUST), Hanoi, Vietnam

This special issue of the *International Journal of Quality Assurance in Engineering and Technology Education* (IJQAETE) presents extended versions of three papers that were selected after a rigorous review of the conference papers presented and published at the 4th *International Engineering and Technology Education Conference* (IETEC) held at Hanoi, Vietnam. IETEC'17 was the 4th International Conference in the IETEC series which brought together researchers across the globe to discuss significant research and findings in the field. The contributions from avid researchers in this special issue truly reflect the theme of the IETEC'17 conference "Engineering and Technology Education Quality Assurance: Embracing the Future".

The first paper in this special issue is by Taylor et al. from Australia, who contributed to bring forth a survey paper that examined the student's perspective in portfolio assessment for a core undergraduate engineering course. The survey was conducted in two steps, initially including a group of 42 students and later a follow-up of 11 students. The paper significantly raises the opinion that in case the students are well supported, they do see the value of engaging in project-based learning via portfolio assessment.

The second paper by Eufemia and Edicio Faller, from Philippines, discusses the importance of problem-based learning supplemented with authentic assessment as an implementation of outcome-based learning. The case of Computer Engineering program of Ateneo de Davao University, Philippines is discussed in particular. In this descriptive and qualitative research, the author exhibits the engagement, involvement and impact of problem-based learning through the service learning program on computer science students. The authors argue that by looking at the positive impact of service-learning pedagogy followed in computer engineering program at the university, it can be further extended to all programs offered by the university.

The last paper of the issue is by Duyen Nguyen Thi, from Vietnam, which surveys 115 teachers belonging to 40 High schools in Vietnam to exhibit the grave need of formal training in the field of career counselling to teachers at the high school level in Vietnam. The author reports that the absence of formal training in career counselling to the existing staff at high school level causes severe impacts in longer run. The author also proposes a career counselling program for High school teacher, in the light of the research work carried out.

We sincerely hope that the research fraternity will benefit from the research idea and findings of the paper contributors enhancing much more research in the domain of the engineering and technology education.

Le Huy Tung
Guest Editor
IJQAETE

Le Huy Tung is currently working as Lecturer and Head of Engineering and Didactics Department, Hanoi University of Science and Technology (HUST), Vietnam. He is also the Director, Center for Quality Assurance HUST. He has done his PhD from Kyungpook National University, Deagu, Korea and M.S. in Measurement and Control Systems from Hanoi University of Science and Technology, Hanoi, Vietnam. His research interests include control theory and applications, robotics and automation, modeling and simulation, quality assurance and management in higher education. He is an IRCA Certified ISO 9001:2015 Lead Auditor and has many certificate courses to his name. He is also the bearer of the Education Quality Accreditor Card by Vietnam Ministry of Education and Training. He has published 4 SCIE papers, 4 international conferences papers, 20 papers in Vietnam scientific journals.