Guest Editorial

The aim of this special issue is to introduce the burgeoning topic of Sustainable Urbanization (SU) in engineering sciences and its applications and to showcase some of the recent developments, focusing on the energy, society, education and some of the practical engineering solutions that add value to the sustainability theme.

This special issue provides a forum for the publication of articles that address broad challenges on both abstract and application aspects of key components of the SU for the future. The call for this special issue has attracted twenty six (26) papers covering a broad range, addressing the challenges for the futuristic living. After two rounds of peer-reviews by a team of international experts, the papers are summarized as below.

The first topic includes sustainability city planning, an article throughput by Camelia. "Centrality through the history: A discussion on space syntax and urban morphology of south klang city centre" drafts the regional design for the opportunity of developmental design for klang city. The paper address the core of the special issue on sustainable urbanization: Opportunities and Challenges in futuristic city planning. The energy opportunities towards bauxite mining is presented by the author Mann, which was the key deliberation topic in the past year in the Malaysian context and key concern towards sustainable living.

The second topic on the energy aspects towards SU is addressed in balancing out future power network. New type of dynamic generators both rotational and linear types will dominate the future workforce in the manufacturing industry.

Educational sciences is the force behind the nation building and the third topic emphasise on the pedagogical sciences for sustainable future through works that highlights use of modern tools, the assessment methods and the graduate capabilities computations towards making the pedagogy meaningful.

The fourth pillar of the nation being the fourth topic on the opportunities and challenges in media including the next generation television, the media assessment, management and innovation opportunities in the electronic media industry adds dimensions towards sustainable communications.

Collectively, the papers included in this special issue are sustainable solutions to the current research challenges in advanced understanding. We believe these works are a valuable resources and motivations towards working on the challenging issues as well as making an impact in the future research.

We would like to thank the Editor-in-Chief of the journal, Professor Ir. Dr. Satesh Namasivayam and the Executive Editor Associate Professor Dr. Abdulkareem for their huge support in bringing out this themed special issue. Our special thanks goes to the authors and the editorial staff, for their valuable and prompt support throughout the preparation and publication of this special issue. We also extend our thanks to all reviewers for their hard work to ensure the quality of the papers are up to the standards of the journal.

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