

PREFACE

The 9th International Unimas STEM Engineering Conference (Encon) 2016 was held at Riverside Majestic Hotel in the beautiful city of Kuching, Sarawak, Malaysia during 26-28 October 2016. The conference was organized by The Faculty of Engineering Universiti Malaysia Sarawak, Malaysia Ministry of Higher Education, Jabatan Pendidikan Sarawak, and Tabung Ekonomi Gagasan Anak Bumiputera Sarawak (TEGAS). With the theme 'Innovative Solutions for Engineering and Technology Challenges', the conference has successfully gathered presenters and participants from across the region and from different backgrounds including researchers, academics, engineers, industrial professionals as well as graduate students to share their experience and research findings. This would enhance networking opportunities among the participants in the field of STEM, engineering and technology.

Papers presented during the conference are peer-reviewed and selected among papers that were submitted to the organizers prior to the conference. Chief editor together with associate editors conducted normal refereeing procedure by assigning two to three competent reviewers to review each paper in their respective area of expertise. The papers in this proceeding are classified into three categories: Civil Engineering, Mechanical Engineering, Chemical Engineering and STEM Education. Editors would like to thank all reviewers for their voluntary contribution to review the papers.

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