

# 2016 7<sup>th</sup> International Conference on Mechanical, Industrial, and Manufacturing Technologies

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MIMT was held to provide a platform for researchers, scientists and people working in the related fields to get together and share their experiences and lessons with other enthusiasts, and develop opportunities for cooperation. It arouses great interests and attentions from domestic and foreign researchers in mechanical, industrial, and manufacturing technologies field, More than 50 papers have been accepted which covers most of the current topics of the related fields, more than 70 people from scientific institutes, universities attended this conference. The conference program is rich. The participants gave excellent speeches on the topics and have lively discussions. We are sincerely grateful to the participants' interest and support as well as their contributions to the conference. We are also grateful to the great efforts of the editors, reviewers and publisher engaged in this conference proceeding.

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# PREFACE

2016 7<sup>th</sup> International Conference on Mechanical, Industrial, and Manufacturing Technologies (MIMT) was organized by IACT and was held in Cape Town, South Africa during 1-3 February 2016 at the Cape Milner Boutique Hotel. It aims to put forward the newest development and research achievement in mechanical, industrial, and manufacturing technologies and foster communication among researchers and practitioners who works in a wide variety of scientific areas with a common interest in improving mechanical, industrial, and manufacturing technologies.

The proceedings of MIMT 2016 consist of 57 selected papers which are presented orally at the conference or via poster sessions. The topics of papers include 12 branches, including material science, robot design and development technology, mechanical control and manufacturing system, automation and control engineering, automation and control engineering, automation and control engineering, image processing and visualization, satellite and communication engineering, signal analysis and processing, applied mechanics and fluid dynamics, electronic application technology. The papers are accepted and being peer-reviewed by the conference committee, international reviewers based on the topic of each paper. All the authors of accepted papers gave excellent presentations in this meeting. Participants have exchanged in detail around mechanical, industrial, and manufacturing technologies. On the basis of the conference achievement, we collect and compile these research papers into this conference proceeding, in which the content represents the latest international academic progress of mechanical, industrial, and manufacturing technologies. We hope the presented papers will be interesting for readers and a good base for inspiration for future developments.

On behalf of the conference organizing committee, we would like to express our sincere appreciation to the conference chairs, Prof. K. Abou-El-Hossein and Prof. Ramesh Kuppuswamy, program chairs, Dr. Kumuran Kadirgama and Prof. Wen-Yeuan Chung, sponsors and every technical committee member, as well as the editors and authors for their kind support to us so that we could pull off the conference and their efforts to put together the proceedings.

MIMT 2016 Conferences Organizing Committees

February 1, 2016.