

IOP Conference Series: Materials Science and Engineering

PAPER • **OPEN ACCESS**

2019 4th International Conference on Mechanical, Manufacturing, Modeling and Mechatronics (IC4M 2019) & 2019 4th International Conference on Design Engineering and Science (ICDES 2019)

To cite this article: 2019 *IOP Conf. Ser.: Mater. Sci. Eng.* **520** 011001

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PREFACE

2019 4th International Conference on Mechanical, Manufacturing, Modeling and Mechatronics (IC4M 2019) in conjunction with 2019 4th International Conference on Design Engineering and Science (ICDES 2019) were held in Nice, France, from February 22-24, 2019. IC4M 2019 and ICDES 2019 are organized by Hong Kong Society of Mechanical Engineers. The conference provides a useful and wide platform both for display the latest research and for exchange of research results and thoughts in Design Engineering and Science, Mechanical, Manufacturing, Modeling, Mechatronics and other topics. The participants of the conference were from almost every part of the world, with background of either academia or industry, even well-known enterprise. The success and prosperity of the conference is reflected high level of the papers received.

The proceedings are a compilation of the accepted papers and represent an interesting outcome of the conference. This book covers 2 chapters: Mechanical, Manufacturing and Mechatronics Engineering; Modeling in Engineering and Design Engineering Science.

We would like to acknowledge all of those who supported IC4M 2019 and ICDES 2019. Each individual and institutional help were very important for the success of this conference. Especially we would like to thank the organizing committee for their valuable advices in the organization and helpful peer review of the papers.

We sincerely hope that IC4M 2019 and ICDES 2019 will be a forum for excellent discussions that will put forward new ideas and promote collaborative researches. We are sure that the proceedings will serve as an important research source of references and the knowledge, which will lead to not only scientific and engineering progress but also other new products and processes.



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