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Preface

This proceeding presents thirty-six papers selected from the proceedings of the 1st International Conference on Computing and Precision Engineering (ICCPE), which was held from November 27 to 30, 2015, in Sun-Moon Lake, Nantou, Taiwan. The topics include Computational and mathematical sciences, Modeling, numerical simulation and optimization, Computer and information design and analysis technologies, Advanced manufacturing and analysis technology, Control and automation technology, mechatronics, robotics for manufacture and industry.

The conference particularly encouraged the interaction of research students and developing academics with the more established academic community to present and to discuss new and current work. Their contributions helped to make the Conference as outstanding as it has been. In addition to the contributed papers, four invited keynote presentations were given: by [Prof. Oronzio Manca](#) of the Second University of Naples of Italy, who spoke about [comparative analysis in convective heat transfer enhancement by nanofluids](#), by Dr. Yunhua Li of the Beijing University of Aeronautics and Astronautics of China, who spoke about [modeling, control, and scientific computation for complicated engineering problems](#), by Prof. Daeho Lee of Gachon University of Korea, who spoke about [laser-based material processing and electronics fabrication](#) and by [Dr. Tien-Yuan Kuo](#) of the President of Chengda Intellectual Property Tech. Ltd.Co. who spoke about [systematization of technology valuation](#).

All the papers (about 130 papers) submitted to this conference were first subjected to peer review by two independent reviewers prior to the conference. There were only thirty-six papers of high quality recommended for submission to this proceeding and accepted with mandatory changes and final examination by the Chairmen. Lastly, I would like to thank ICCPE Program Chairman /Professor Chien-Hung Liu for his advice.

These Proceedings will furnish the scientists of the world with an excellent reference book. I trust also that this will be an impetus to stimulate further study and research in all these areas.

We thank all authors and participants for their contributions.