

Preface

In 1981, under the directing of the great scientist Xuesen Qian, an integrated frontier science—Man-Machine-Environment System Engineering (MMESE)—came into being in China. Xuesen Qian gave high praise to this emerging science. In the letter to Shengzhao Long, he pointed out, “You are creating this very important modern science and technology in China!” in October 22, 1993.

In the congratulation letter to the commemoration meeting of 20th anniversary of establishing the Man-Machine-Environment System Engineering, the great scientist Xuesen Qian stated, “You have made active development and exploration in this new emerging science of MMESE, and obtained encouraging achievements. I am sincerely pleased and hope you can do even more to make prosper development in the theory and application of MMESE, and *make positive contribution to the progress of science and technology in China, and even in the whole world*” in June 26, 2001.

October 22, which is the day that the great scientist Xuesen Qian gave high praise to MMESE, was determined to be Foundation Commemoration Day of MMESE by the 2nd conference of the 5th MMESE Committee on October 22, 2010. On this very special day, the great scientist Xuesen Qian pointed out in the letter to Shengzhao Long, “You are creating this very important modern science and technology in China!” and the conference also determined that the annual conference on MMESE would be held from October 21–23 to cherish the memory of the great contributions that the great scientist Xuesen Qian had made to the MMESE!

The 16th International Conference on MMESE will be held in Xi’an, China on October 21–23 of this year; hence, we will dedicate *Man-Machine-Environment System Engineering: Proceedings of the 16th International Conference on MMESE* to our readers.

Man-Machine-Environment System Engineering: Proceedings of the 16th International Conference on MMESE is the academic showcase of the 16th International Conference on MMESE jointly held by MMESE Committee of China

and Beijing KeCui Academe of MMESE in Xi'an, China. The *Man-Machine-Environment System Engineering: Proceedings of the 16th International Conference on MMESE* is consisted of 70 more excellent papers selected from more than 400 papers. Due to limitations on space, some excellent papers have been left out, we feel deeply sorry for that. Crudeness in contents and possible incorrectness are inevitable due to the somewhat pressing editing time and we hope you kindly point them out promptly, and your valuable comments and suggestions are also welcomed.

Man-Machine-Environment System Engineering: Proceedings of the 16th International Conference on MMESE will be published by Springer-Verlag, German. Springer-Verlag is also responsible for the related matters on index of Index to EI, so that the world can know the research quality and development trend of MMESE theory and application. Therefore, the publication of *Man-Machine-Environment System Engineering: Proceedings of the 16th International Conference on MMESE* will greatly promote the vigorous development of MMESE in the world, and realize the grand object of "making positive contribution to the progress of science and technology in China, and even in the whole world" proposed by Xuesen Qian.

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Beijing, China
July 2016

Prof. Shengzhao Long

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