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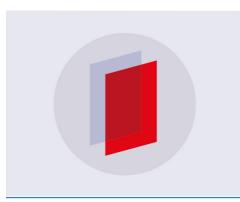
4th Asia Conference of International Building Performance Simulation Association

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PREFACE

The 4th Asia Conference of International Building Performance Simulation Association (ASIM2018) was held in Hong Kong on the 3-5 December, 2018. ASIM2018 was organized by International Building Performance Simulation Association (IBPSA) - China and co-organized by The Hong Kong Polytechnic University. This biennial conference provides a platform for academics, professionals, consultants, designers, engineers and research students to exchange ideas, knowledge and information about building performance simulation. The participants of the conference came from more than ten countries in the world, with background of either academia or the industry. The success and prosperity of the conference are reflected by the high level of the papers received.

The conference proceeding is a compilation of the accepted conference papers and represents an interesting outcome of the conference. At this conference, we have received papers from authors all over the world, not just from the Asian countries such as Indonesia, India, China, Australia, Japan, South Korea, Singapore, but also from other countries like Ireland, United States, Canada and more. The topics of the conference papers include building physics; simulation and real performance; simulation in design practice; simulation for regulation/code compliance and certification; software/interface development, test and validation; simulation to support commissioning, controls and monitoring; case studies of building simulation application; community/urban scale modelling and simulation; occupant behavior in buildings; indoor environment: comfort, air quality, lighting and acoustic; optimization of control and design; BIM and BEM; uncertainty and sensitivity analysis; and machine learning and data-driven model.

We would like to acknowledge everyone who supported ASIM2018. Each individual help was very important for the success of this conference. Especially we would like to thank the organizing committee and scientific committee for their valuable advices in the organization and helpful peer reviews of the papers.

We sincerely hope that ASIM2018 is a platform for excellent discussions that puts forward new ideas and promotes collaborative researches. We are confident 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.

Prof. Shengwei Wang,

Conference chair of ASIM2018

The Hong Kong Polytechnic University