

## Preface

### *Special Issue for the 25th International Conference on Discrete Simulation of Fluid Dynamics (DSFD)*

This special issue of Communication in Computational Physics (CiCP) collects a selected subset of the papers presented at the 2016 Discrete Simulation of Fluid Dynamics (DSFD) conference held at Southern University of Science and Technology (SUSTech) in Shenzhen, China, from July 3 to 8.

Shenzhen is a major city located in Southern China, situated immediately north of Hong Kong SAR. As one of China's major gateways to the world, Shenzhen is the country's fast-growing city, the high-tech and manufacturing hub, and home to some of China's most recognized enterprises such as Huawei, Tencent and DJI. As a State-level innovative city, Shenzhen has chosen independent innovation as its development strategy. A picturesque coastal city, Shenzhen is also a popular tourist destination and was named one of the world's 31 must-see tourist destinations in 2010 by The New York Times. Established in 2012, the Southern University of Science and Technology is a public institution funded by the municipal of Shenzhen. SUSTC is a pioneer in higher education reform in China. The mission of the University is to become a globally recognized institution which emphasizes academic excellence and promotes innovation, creativity and entrepreneurship.

The DSFD series of conferences, originated from the 1986 Los Alamos lattice-gas conference, has become the premier occasion for researchers working with the lattice-gas and lattice Boltzmann method (LBM) and a number of related areas to get together and exchange ideas. Over the years this series of conferences have played a critical role in the phenomenal growth of the research community and helped fostering many important ideas. As the organizers of the 2016 incarnation, we are glad that the same tradition continued with the conference attracting 100 attendees from 11 countries and regions worldwide. A total of 69 presentations, 13 of which were invited talks, were given. From all the presentations, 19 appeared in the present Special Issue of CiCP.

Finally, on behalf of the local organizing committee, I would like to express the deepest gratitude to a number of organizations for their generous support. They are: the National Science Foundation of China, the National Key Basic Research and Development (973) Program of China, the China Aerodynamics Research and Development Center, University of Edinburg, AMAX China, and PowerLeader. We are also grateful to SUSTech for providing conference venue, services and general support without which

the conference would not have been possible. Special thanks go to the staff and students of the Department of Mechanics and Aerospace Engineering for their tremendous amount of time and effort devoted to the preparation of the conference. We are also pleased that Communication in Computational Physics agreed to give us this opportunity to present the content of the 2016 DSFD conference to a broader audience, and indebted to the editorial staff for the assistance in the publishing process.

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