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Data Science

8th International Conference
of Pioneering Computer Scientists, Engineers
and Educators, ICPCSEE 2022
Chengdu, China, August 19–22, 2022
Proceedings, Part I

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ISSN 1865-0929

ISSN 1865-0937 (electronic)

Communications in Computer and Information Science

ISBN 978-981-19-5193-0

ISBN 978-981-19-5194-7 (eBook)

<https://doi.org/10.1007/978-981-19-5194-7>

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The registered company address is: 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore

Preface

As the chairs of the 8th International Conference of Pioneer Computer Scientists, Engineers and Educators 2022 (ICPCSEE 2022, originally ICYCSEE), it is our great pleasure to welcome you to the conference proceedings. ICPCSEE 2022 was held in Chengdu, China, during August 19–22, 2022, and hosted by the Southwest Petroleum University, the University of Electronic Science and Technology of China, and the National Academy of Guo Ding Institute of Data Sciences, China. The goal of this conference series is to provide a forum for computer scientists, engineers, and educators.

This year's conference attracted 263 paper submissions. After the hard work of the Program Committee, 63 papers were accepted to appear in the conference proceedings, with an acceptance rate of 24.7%. The major topic of this conference is data science. The accepted papers cover a wide range of areas related to basic theory and techniques for data science including mathematical issues in data science, computational theory for data science, big data management and applications, data quality and data preparation, evaluation and measurement in data science, data visualization, big data mining and knowledge management, infrastructure for data science, machine learning for data science, data security and privacy, applications of data science, case studies of data science, multimedia data management and analysis, data-driven scientific research, data-driven bioinformatics, data-driven healthcare, data-driven management, data-driven e-government, data-driven smart city/planet, data marketing and economics, social media and recommendation systems, data-driven security, data-driven business model innovation, and social and/or organizational impacts of data science.

We would like to thank all the Program Committee members, a total of 261 people from 142 different institutes or companies, for their hard work in completing the review tasks. Their collective efforts made it possible to attain quality reviews for all the submissions within a few weeks. Their diverse expertise in each research area helped us to create an exciting program for the conference. Their comments and advice helped the authors to improve the quality of their papers and gain deeper insights.

We thank the team at Springer, whose professional assistance was invaluable in the production of the proceedings. A big thanks also to the authors and participants for their tremendous support in making the conference a success.

Besides the technical program, this year ICPCSEE offered different experiences to the participants. We hope you enjoyed the conference.

June 2022

Liehui Zhang
Hongzhi Wang
Yang Wang
Guobin Zhu
Qilong Han

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The 8th International Conference of Pioneering Computer Scientists, Engineers and Educators (<http://2022.icpcsee.org>) was held in Chengdu, China, during August 19–22, 2022, and hosted by the Southwest Petroleum University, the University of Electronic Science and Technology of China and the National Academy of Guo Ding Institute of Data Sciences, China.

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