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# Recent Advances on Soft Computing and Data Mining

Proceedings of the Sixth International  
Conference on Soft Computing and Data  
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 Springer

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Faculty of Computer Science and Information  
Technology  
Universiti Tun Hussein Onn Malaysia  
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Deakin University  
Wandana Heights, VIC, Australia

Nureize Arbaiy  
Faculty of Computer Science and Information  
Technology  
Universiti Tun Hussein Onn Malaysia  
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# Preface

Advancements in data storage and accessibility have fueled the growth of data science, which employs various methods to extract insights and patterns from data. Despite the demand for skilled data scientists, extracting actionable insights remains challenging, particularly with complex data systems. To address this, data mining has emerged as a crucial approach, offering potential for discovering patterns across diverse data types. By leveraging data and soft computing techniques, researchers can explore extensive databases to uncover hidden patterns. Ongoing research focuses on developing advanced statistical interpretations and innovative technologies. Soft computing techniques address imprecision and uncertainty, enhancing tractability and robustness. These techniques, whether used individually or combined, are emerging as robust options for various tasks in fields such as business and marketing, healthcare, finance, e-commerce, manufacturing, telecommunications, transportation, environmental science, agriculture, education, and more. They aim to transform data into innovative solutions that offer new value propositions for customers.

Following the successful organization of five previous SCDM conferences from 2014 to 2022, we are pleased to continue this journey of achievements with our sixth international conference, SCDM 2024. This year's conference, held in a virtual format on August 21–22, 2024, facilitated global participation, providing live interactive networking opportunities and content access to attendees worldwide. We received 75 paper submissions from 15 countries, each of which underwent rigorous screening and peer-review processes. Ultimately, 42 papers of the highest quality and merit were selected for oral presentation and publication in this volume proceeding, representing an acceptance rate of 56%.

We would like to express our sincere appreciation to the conference organizer, Faculty of Computer Science & Information Technology, UTHM, and the Soft Computing & Data Mining research group, as well as to the Steering Committee, Conference Chair, Program Committee Chair, Organizing Chairs, and all Program and Reviewer Committee members of SCDM 2024. Their invaluable contributions to the review process have ensured the highest quality of selected papers for the conference.

We also extend our appreciation to our esteemed keynote speakers, Associate Professor Dr. Harish Garg from the Thapar Institute of Engineering & Technology, Punjab, India, and Mr. Azhar Kassim Mustapha from Nervesis, Malaysia. Special thanks are due to Dr. Thomas Ditzinger for facilitating the publication of the proceeding in Lecture Notes in Networks and Systems, Springer. We acknowledge the Organizing Committee members for their significant contributions, particularly those in pivotal roles.

Finally, we want to extend our heartfelt appreciation to all authors for their valuable contributions and to all participants for their enthusiastic engagement. We are truly

grateful for your dedication and commitment, which have greatly contributed to the success of this conference.

Rozaida Ghazali  
Nazri Mohd Nawi  
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