

Algorithms for Intelligent Systems

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I. Jeena Jacob ·
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Editors

Data Intelligence and Cognitive Informatics

Proceedings of ICDICI 2021

 Springer

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*The ICDICI 2021 conference is solely
dedicated to all the editors, reviewers, and
authors of the conference event.*

Foreword

The International Conference on Data Intelligence and Cognitive Informatics [ICDICI 2021] was held in Tirunelveli, India, on 16–17, July 2021 at SCAD College of Engineering and Technology. The proceeding of the ICDICI 2021 conference is presented here with the aim to share and exchange the state-of-the-art research ideas about the different aspects of data and informatics research with a special attention to the encountered practical challenges and the potential solutions adopted to overcome them.

We strongly believe that the research articles of ICDICI 2021 will give you a technically rewarding experience by providing more research information on the current issues of informatics and general data science interest. We have received 262 submissions from across the country and also from overseas by representing government, industries, and academia. Finally, 66 manuscripts are shortlisted depending on the results of the peer-review process.

ICDICI 2021 promises to be more informative and research simulating with a magnificent array of keynote speakers across the globe. The program consists of invited sessions, presentations, and technical discussions with the most eminent and proficient speakers and session chairs by covering a wide range of topics in data intelligence. Also, the conference delegates had a wide range of sessions in different domains of data science, informatics, and cognitive intelligence.

We humbly wish to thank the organization staff, technical program committee, and reviewers of the conference for their valuable suggestions and timely response to the authors of ICDICI 2021. We would like to thank the conference's guest editors, Dr. I. Jeena Jacob, Dr. Selvanayaki Kolandapalayam Shanmugam, and Dr. Robert Bestak, for their effective support and guidance. We also extend our gratitude to the

authors and conference participants for contributing their novel research results to the conference. Special thanks to Springer publications.

P. Ebby Darney
Conference Chair – ICDICI 2021
SCAD College of Engineering
and Technology
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Preface

With a deep satisfaction, I write this foreword to welcome you all to the International Conference on Data Intelligence and Cognitive Informatics [ICDICI 2021] held in Tirunelveli, India, on July 16–17, 2021.

The theme of ICDICI 2021 is *Data Intelligence*, a research topic that is gaining quick research traction in both industries and academia due to its research relevance to the emerging societal and economic issues in the areas like healthcare, transportation, industries, education, and so on. The well-established research track records on intelligent data systems mandate the integration of artificial intelligence techniques and processes make ICDICI an excellent venue for exploring the cognitive foundations for emerging data systems.

With respect to the potential hard work of the ICDICI 2021 conference committee, I would like to express my appreciation and gratitude to all the technical program committee members, international and national advisory board members, and review committee members, who have made this conference a successful and possible one.

Finally, I would like to extend my warm thanks to all the keynote speakers, session chairs, and fellow researchers, who have willingly shared their research experience and knowledge with all the readers of this extended conference proceedings.

I hope that this proceeding of ICDICI 2021 will further stimulate research in data mining and intelligent systems and provide practitioners with advanced algorithms, techniques, and tools for deployment. I feel honored and privileged to serve the significant recent developments in the field of intelligent systems and data intelligence to you through this exciting program.

Bangalore, India
Ashland, USA
Prague, Czech Republic

I. Jeena Jacob
Selvanayaki Kolandapalayam Shanmugam
Robert Bestak

Acknowledgments

We are deeply obliged to all the contributors of this ICDICI 2021 conference and all the reviewers for their informative, cogent, and timely reviews of papers submitted to the conference, and also the SCAD College of Engineering and Technology staff and international technical reviewer’s community for their professional and thoughtful expertise to shape this conference event.

Overall thanks go to all the conference program and local organizing committee members, who have gone out in their way to make this a successful event.

Finally, we offer our sincere thanks to conference chair, co-conference chair, and organizing secretary for their continuous effort in the organization, preparation, and handling of ICDICI conference administration. Further appreciation is also due to the editors of Springer publications, high standards of editorial productions of conference proceedings.

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