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Advanced Computing and Intelligent Technologies

Proceedings of ICACIT 2021

 Springer

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Preface

This book gathers selected high-quality research papers presented at the 2021 International Conference on Advanced Computing and Intelligent Technologies (ICACIT), held at NCR New Delhi, India, during March 20–21, 2021, jointly organized by Galgotias University, India, and Department of Information Engineering and Mathematics Università Di Siena, Italy. It discusses emerging topics pertaining to Advanced Computing, Intelligent Technologies and Networks including AI and Machine Learning, Data Mining, Big Data Analytics, High Performance Computing Network Performance Analysis, Internet of Things Networks, Wireless Sensor Networks, and others. Written by respected experts and researchers working on Computing and Intelligent Technologies, the book offers a valuable asset for researchers both from academia and industries involved in advanced studies.

We are thankful to all the authors that have submitted papers for keeping the quality of the ICACIT 2021 at high levels. The editors of this book would like to acknowledge all the authors for their contributions and the reviewers. We have received invaluable help from the members of the International Program Committee and the chairs responsible for different aspects of the workshop. We also appreciate the role of Special Session Organizers. Thanks to all of them, we had been able to collect many papers on interesting topics, and during the conference, we had very interesting presentations and stimulating discussions.

Our special thanks go to Janus Kacprzyk (Editor in Chief, Springer, *Advances in Intelligent Systems and Computing Series*) for the opportunity to organize this guest-edited volume.

We are grateful to Springer, especially to Dr. Thomas Ditzinger (Senior Editor, *Applied Sciences and Engineering*, Springer-Verlag), for the excellent collaboration, patience, and help during the evolution of this volume.

We hope that the volume will provide useful information to professors, researchers, and graduated students in the area of soft computing techniques and applications, and everyone will find this collection of papers inspiring, informative, and useful. We also hope to see you at a future ICACIT event.

Siena, Italy

Milan, Italy

Imphal, India

Greater Noida, India

Monica Bianchini

Vincenzo Piuri

Sanjoy Das

Rabindra Nath Shaw

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About the Editors

Monica Bianchini received the Laurea cum laude in Mathematics and the Ph.D. degree in Computer Science from the University of Florence, Italy, in 1989 and 1995, respectively. After receiving the Laurea, for two years, she was involved in a joint project of Bull HN Italia and the Department of Mathematics (University of Florence), aimed at designing parallel software for solving differential equations. From 1992 to 1998, she was a Ph.D. student and a Postdoc Fellow with the Computer Science Department of the University of Florence. Since 1999, she has been with the University of Siena, where she is currently Associate Professor at the Information Engineering and Mathematics Department. Her main research interest is in the field of artificial intelligence & applications, machine learning, with emphasis on neural networks for structured data and deep learning, approximation theory, information retrieval, bioinformatics, and image processing. M. Bianchini has authored more than seventy papers and has been Editor of books and special issues on international journals in her research field. She has been a participant in many research projects focused on machine learning and pattern recognition, funded by both Italian Ministry of Education (MIUR) and University of Siena (PAR scheme), and she has been involved in the organization of several scientific events, including the NATO Advanced Workshop on Limitations and Future Trends in Neural Computation (2001), the 8th AI*IA Conference (2002), GIRPR 2012, the 25th International Symposium on Logic-Based Program Synthesis and Transformation, and the ACM International Conference on Computing Frontiers 2017. Prof. Bianchini served as Associate Editor for IEEE Transactions on Neural Networks (2003-09), Neurocomputing (from 2002), and Int. J. of Computers in Healthcare (from 2010). She is Permanent Member of the Editorial Board of IJCNN, ICANN, ICPR, ICPRAM, ESANN, ANNPR, and KES.

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