

# Preface

In this decade, with advancements in data mining, many new models and tools in discovering knowledge and extracting intelligence brought forth revolutionary developments with the help of computational intelligence techniques. The present scenario of storage of the amount of data is quite huge in the modern database due to the availability and popularity of Internet. Thus, information needs to be summarized and structured in order to maintain effective decision-making. When the quantity of data, dimensionality, and complexity of the relations in the database are beyond human capacities, there is a requirement for intelligent data analysis techniques, which could discover useful knowledge from data. While data mining evolves with innovative learning algorithms and knowledge discovery techniques, computational intelligence harness the results of data mining for becoming more intelligent than ever. In the present scenario of computing, computational intelligence is playing a major role in solving many real world complex problems. The 3rd International Conference on “Computational Intelligence in Data Mining (ICCIDM 2016)” organized by Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India on 10 and 11 December 2016. ICCIDM is an international forum for representation of research and developments in the fields of data mining and computational intelligence. More than 300 prospective authors had submitted their research papers to the conference. This time the editors have selected 79 papers after double-blind peer-review process by experienced subject experts chosen from the country and abroad. The proceedings of ICCIDM are a mix of papers from some latest findings and research of the authors. It is a great honor for us to edit the proceedings. We have enjoyed considerably working in cooperation with the International Advisory, Program, and Technical Committees to call for papers, review papers, and finalize papers that are included in these proceedings.

This International Conference ICCIDM aims at encompassing a new breed of engineers, technologists making it a crest of global success. All papers are focused on thematic presentation areas of the conference and they have provided ample opportunity for presentation in different sessions. This year’s program includes exciting collections of contributions resulting from a successful call for papers. The selected papers have been divided into thematic areas including both review and

research papers and which highlight the current focus of computational intelligence techniques in data mining. The conference aims at creating a forum for further discussion for an integrated information field, incorporating a series of technical issues in the frontier analysis and design aspects of different alliances in the related field of intelligent computing and others. Therefore, the call for paper was on three major themes such as methods, algorithms, and models in data mining and machine learning, advance computing and applications. Further the papers discussing the issues and applications related to the theme of the conference were also welcomed in ICCIDM.

We hope readers will enjoy the collection papers published in this volume.

Sambalpur, India  
Rourkela, India

Himansu Sekhar Behera  
Durga Prasad Mohapatra

Computational Intelligence in Data Mining  
Proceedings of the International Conference on CIDM,  
10-11 December 2016  
Behera, H.S.; Mohapatra, D.P. (Eds.)  
2017, XIX, 847 p. 372 illus., Softcover  
ISBN: 978-981-10-3873-0