

# Editorial Preface

## Special Issue on Recommender Systems: Latest Technologies and Research Challenges

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The constantly changing landscape of current practices in recommender systems creates a need for knowledge resources that will empower professionals, academic educators, researchers, and industry consultants all over the world. *Recommender Systems: Latest Technologies & Research Challenges* is a vital reference source that will meet these needs by exploring the latest coverage on the aspects of system sciences from different fields, covering topics such as mobile based healthcare, diffusion models in news spread networks, and link prediction evaluation.

This reference source is organized into 3 articles contributed by global experts, drawing on their experiences, observations, and research surrounding system sciences and recommender systems. A brief description of each of the chapters can be found in the following paragraphs.

In the first article, link prediction is gaining interests in the community of machine learning due to its popularity in social networking and e-commerce. This paper aims to present the performance of link prediction using a set of predictive models.

In the second article, the main focus of the paper is to reconstruct a Susceptible-Infected (SI) diffusion model to discover spreading pattern of news articles for virality detection. For experimental analysis, a dataset of news articles from four domains (Business, Technology, entertainment & Health) is considered and their rate of diffusion is inferred and compared. This will help to build recommendation system i.e. recommending particular domain for advertisement and marketing. Hence, it will assist to build strategies for effective product endorsement for sustainable profitability.

In the third article, recent advances in mobile technology and machine learning together steer us to create a mobile based healthcare app for recommending disease. In this study the authors develop an android based healthcare app which will detect all kind of diseases within no time. The authors develop a novel hybrid machine learning algorithm in order to provide more accurate results.

The comprehensive coverage this publication offers is sure to contribute to an enhanced understanding of all topics, research, and discoveries pertaining to recommender systems. Furthermore, the contributions included in this publication

will be instrumental in the expansion of knowledge offerings in this field. This publication will inspire its readers to further contribute to the current discoveries in this immense field, creating possibilities for further research and discovery into the future of innovation.

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