Introduction

Deepak Garg

Computer Science and Engineering Department,
Thapar University,
Patiala-147004, India
E-mail: dgarg@thapar.edu

Biographical notes: Deepak Garg holds a PhD in Efficient Algorithm Design for Pattern Discovery. He has more than 100 publications to his credit. He is the Chair of Steering Committee of IEEE International Advanced Computing (IACC) Series of Annual Conference. He is currently the Chair of IEEE Computer Society, India Council and the Chair of IEEE Education Society, India Council. He is the Chair of ACM SIGACT North India Chapter. He is teaching UG and PG courses and guiding PhD students in different areas of algorithms.

After much deliberation, it was agreed to have a special issue on advanced algorithms trust, performance and optimisation.

The issue is relevant in the current scenario. We are moving in the direction where every application is being integrated with other applications. Numbers of services that affect our daily life are now increasingly available online. Volume and scale of these applications is increasing day by day.

In this situation, users are increasingly concerned about the validity and authenticity of the service providers. Along with that performance of these applications remains a continuous concern which can be only achieved with optimised use of resources using sophisticated algorithms.

A paper titled 'Archimedean copula-based estimation of distribution algorithm for multi-objective optimisation' discusses about tackling multi-objective optimisation problems by incorporating Archimedean copulas for constructing probability distribution model.

Another paper on 'Selective opportunistic routing based on QoS in wireless mesh network' which discusses about some crucial improvements in the performance of parameters related to the wireless networks.

A paper on 'Enhanced *t*-closeness for balancing utility and privacy' gives insight into the method of preserving privacy and relating it with the popular metrics.

A paper on 'Fuzzy logic-based detection of DDoS attacks in IEEE 802.15.4 low rate wireless personal area network' discusses about security issues in the networks.

Another paper on 'Cyber security: testing the effects of attack strategy, similarity, and experience on cyber attack detection' brings about the technique where we can have some insight into the model's accurate and timely detection of cyber attacks.

I hope this special issue will be of interest to the researchers in the relevant fields and it will bring about some healthy progress in the concerned technologies.