THE COMPUTER JOURNAL

Special Focus on Social Computing and its Applications

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Section A Computer Science Theory, Methods and Tools

Section A has as its primary focus the theory and methodologies that are central to computer science. The section welcomes contributions from across this spectrum as well as papers involving the novel application of theoretical research or the adaptation of established methodologies to computational problems in other domains or within software tools. Thematic areas include but are not restricted to: algorithms and complexity; computational logic; formal methods; heuristic search; mathematics of computing; models of computation and unconventional computing; programming languages and semantics; and software engineering.

Section B Computer and Communications Networks and Systems

Section B focuses on new theories, ideas and developments in computer and communications networks and related systems. The section seeks high-quality papers reporting new concepts, analyses and experimental results in areas including, but not limited to: network architectures and protocols, traffic engineering, resource management and quality of service, network monitoring and traffic measurements, wireless networks, personal and body area networks, vehicular networks, content and service-centric networking, energy efficient/green networking, opportunistic and cognitive networks, and networking in extreme/harsh environments.

Section C Computational Intelligence, Machine Learning and Data Analytics

Section C provides solutions and addresses challenging problems in such areas as data mining, image and signal processing, knowledge-based systems and the semantic web. Further thematic areas covered in this section include computational science, pattern recognition, computer vision, speech processing, machine intelligence and reasoning, web science, information retrieval, and emerging application domains in big data, e-science and u-science. It welcomes submissions with new methodology that is very extensively evaluated, and showing strong and significant results.

Section D Security in Computer Systems and Networks

The main focus of Section D is the provision of security and privacy in computer systems and networks. Contributions are welcome on all the main areas of information security and privacy, including, but not limited to: cryptography and cryptanalysis; security protocol design and analysis; intrusion detection systems and techniques; computer system security; hardware and embedded security systems; user authentication techniques and systems.