



## EDITORIAL

## Inaugural Editorial

A warm welcome to the inaugural issue of the *Journal of Computational and Cognitive Engineering (JCCE)*, a new exciting title to Bon View Press portfolio journals for 2022. The launch of this pioneering journal by Bon View Press marks a new era for the multidisciplinary field.

With the increasingly complex situations being modeled to find reasonable answers, the role of computation and cognitive learning has become essential. Therefore, the journal's focus is to provide a new platform for disseminating the latest research and current practices of the emerging fields from cognitive, computational engineering, and artificial intelligence to brain science, cognition, and machine intelligence. As reflected in the journal name, JCCE identifies distinct, effective, and timely approaches to solve the problems related to the fields in question.

*Computational Engineering* is an emerging and rapidly growing multidisciplinary field that applies advanced computational methods and analysis to engineering practice. However, *Cognitive Engineering* emphasizes the application of knowledge and techniques from cognitive psychology to the design of human-machine systems. Models and simulations of cognition have gained popularity as interactive systems have been developed to shed light on human behaviour prediction while developing new approaches and testing cognitive theories themselves. Thus, *Computational and Cognitive Engineering* offers a broader systems perspective to analyzing and designing human-machine systems.

My vision for JCCE is establishing a vigorously peer-reviewed, open-access, online platform with the mission to publish the most inspiring and impactful research discoveries in fundamental areas for all cognitive systems and computational studies worldwide. The Journal will publish original research articles that review recent developments in specific subject areas and forward-looking perspective. Subject areas include, but are not limited to, artificial intelligence, fuzzy logic, neural networks, cognitive engineering, deep learning, computational cognitive neuroscience, decision-making theories, intelligent and knowledge-based system, natural language processing, hybrid and nonlinear system, cognitive psychology, and complex systems.

As an international journal, JCCE shares novel concepts among researchers, industrialists and students across the globe. There are numerous benefits to publishing in this cutting-edge Journal, which strives to guarantee an unbiased double-blind peer review and publish articles online shortly after acceptance with unique Digital Object Identifiers. The journal staff will edit all accepted manuscripts professionally for language and consistency of format before formal publication to ensure high quality. In addition, all the articles are published under the Creative Commons license.

I have the great honor to be the founding Editor-in-Chief and accept the challenges and responsibilities of developing JCCE into a premier professional journal in computational and cognitive engineering. Moreover, it is my great honor to work with an exceptional team of editorial board members who give generously of their time and expertise to the journal. I will rely heavily on them for their willingness to process submitted papers and make a sound recommendation on each manuscript and work with me to develop this new journal to serve the research community best. All Editors also hold the privilege to propose and organize timely special issues in their subfields. As the journal grows, I will recruit additional Editors and adjust the expertise in the editorial board.

The first issue of the *Journal of Computational and Cognitive Engineering* is composed of six articles on various important topics, including the concept of convex soft geometrics, algorithms for spanning trees problems, pattern recognition including decision-making process, multiset modules, fuzzy ideals and face recognition techniques using deep learning. We hope that you enjoy reading them.

I would also like to take this opportunity to invite researchers worldwide to engage in basic research of computational, cognitive and artificial intelligence and submit your enlightening research output, in the form of research papers, technical notes, reviews and Industry Forum articles, to this journal. I expect our distinguished editorial board members and active supporters of several professional associations to realize the journal's objective.

I wish to close this inaugural editorial by showing heartfelt gratitude to all for your support as editors, authors, reviewers and information users who have helped ensure the quality of all articles included in this inaugural issue of JCCE. Last but not least, I would like to thank the Publication Board, Bon View Press personally and managing editor Anita Li for their incredible help, unwavering support and enthusiasm, the launch of the *Journal of Computational and Cognitive Engineering* would not have become a reality without their concerted effort. I will welcome and value greatly your suggestions and ideas for making the journal highly impactful. Together, with your support, we can build a journal of excellence to serve the research community.

Wishing all the aspiring contributors and readers of *Journal of Computational and Cognitive Engineering* an exciting future!

Harish Garg  
Editor-in-Chief

School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala – 147004, Punjab, India  
Email: [harish.garg@thapar.edu](mailto:harish.garg@thapar.edu)