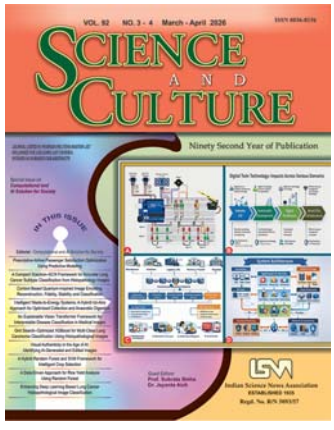
DOI: https://doi.org/10.36094/sc.v92.2026.Computational_and_AI_Solution_for_Society.Sinha_Aich.183

SCIENCE AND CULTURE

VOLUME 92 ❑ MARCH-APRIL 2026 ❑ NOS. 3–4

EDITORIAL

COMPUTATIONAL AND AI SOLUTION FOR SOCIETY



The rapid evolution of computational technologies and artificial intelligence is reshaping every dimension of modern society. From healthcare diagnostics and sustainable agriculture to smart governance and inclusive education, computational intelligence is increasingly becoming a cornerstone of global development. In this context, the National Conference on Computational & AI Solutions for Society (NCCAISS – 2026) serves as a timely platform that brings together researchers, academicians, industry experts, and innovators to explore responsible and impactful technological advancements.

This special publication in *Science and Culture*, reflects the growing need for interdisciplinary research that bridges computational innovation with societal relevance. The selected papers represent high-quality contributions spanning artificial intelligence, data science, cybersecurity, smart infrastructure, high-performance computing, natural language processing, and sustainable technological solutions. Collectively, these works demonstrate how computational research can be translated into real-world applications addressing critical societal challenges.

A defining characteristic of contemporary AI and computational research is its shift toward ethical, transparent, and human-centric design. The conference theme — *Computational and AI Innovations for Social Good: Bridging Technology, Ethics, and Impact* — highlights the importance of responsible innovation. The contributions published in this issue reinforce the importance of developing technologies that are not only efficient and scalable but also equitable, sustainable, and accessible to diverse communities.

The editorial board acknowledges the dedicated efforts of authors, reviewers, technical committee members, and organizing teams whose contributions ensured the academic rigor and quality of this publication. The peer-review process was conducted with strict adherence to originality, technical soundness, and relevance to societal applications. The diversity of topics reflects the multidisciplinary nature of modern computational research and its transformative potential across sectors.

This special issue will serve as a valuable reference for researchers, policymakers, and practitioners working toward technology-enabled societal progress. The research articles published here not only advances scientific knowledge but also promotes innovation aligned with sustainability goals and inclusive development. As we move forward into an era where computation and intelligence drive decision-making at unprecedented scales, it is essential that the scientific community continues to foster collaboration across disciplines and sectors. We hope this publication inspires further research that bridges the gap between theoretical advances and societal impact.

On behalf of the editorial team, we extend our sincere appreciation to all contributors and stakeholders who have supported this initiative. We look forward to continued collaborations that strengthen the role of computational science and AI in building a sustainable and equitable future. ❐

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Dr. Subrata Sinha is an accomplished academician, researcher, and author currently serving as Professor in the Department of Computational Sciences, Brainware University, Kolkata (since June 2025). He holds M.Sc. and M. Phil degrees in Computer Science and a Ph.D. in Bioinformatics. With over 22 years of teaching and research experience, he previously served as Assistant Professor and Chairperson (i/c) at Dibrugarh University, Associate Professor at Brainware University and as Adjunct Professor at Gandaki University, Nepal. Dr. Sinha has led major research initiatives funded by the Indian Council of Medical Research (ICMR), including projects on medicinal plant databases and deep learning models for lung cancer detection. He holds a granted patent and multiple published patents in artificial intelligence, healthcare analytics, and agricultural disease detection. An active researcher, he has authored numerous international journal papers, books, and book chapters in bioinformatics, computational biology, and artificial intelligence. Recipient of several awards including Research Excellence and Best Scientist honors, Dr. Sinha is also a Fellow Member of reputed academic bodies and serves as reviewer and editorial board member for international journals.

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Dr. Jayanta Aich is a distinguished academician and researcher associated with Brainware University, Barasat, Kolkata. He serves as a senior faculty member in the field of Computational Sciences and has contributed significantly to teaching, research, and academic administration. With a strong academic background and a Ph.D. degree, Dr. Aich has played an important role in strengthening the academic framework of the department and has also served in leadership capacities, including Head of the Department. His areas of interest include Machine Learning, Computational Techniques, and Optical/Fiber Optic Technologies. Dr. Aich has published research papers in reputed journals and conferences, contributing to advancements in applied computational research. Beyond academics, he is known for mentoring students through modern learning platforms and faculty development initiatives. Through his dedication to education and research, Dr. Jayanta Aich continues to contribute to the growth and academic excellence of Brainware University.

Note by the Editor-in-Chief, *Science and Culture*: This issue has been sponsored by the Department of Computational Sciences, Brainware University, Kolkata, India.