

Special Issue “Next-Generation Computing: Trends, Challenges, and Opportunities”

Dear colleagues,

We invite you to submit your latest research to the Special Issue “**Next-Generation Computing: Trends, Challenges, and Opportunities**” of the *Programming and Computer Software Journal* (Springer, ISSN 0361-7688, <https://link.springer.com/journal/11086>, IF 0.5, Q4 (Scopus: Q3)).

This new issue explores the evolution of computing systems and technologies shaping the next decade. It aims to foster discussion on innovative paradigms, architectures, and methodologies that redefine how computing is conceived, implemented, and applied. We welcome high-quality original research, surveys, and practical studies that contribute to the understanding and advancement of modern computing, covering topics such as:

- Emerging computing paradigms (quantum, bio-inspired, and neuromorphic computing)
- High-performance, edge, and cloud computing architectures
- Data-centric and distributed systems
- Advances in software engineering and programming models
- Intelligent, adaptive, and autonomous systems
- Cybersecurity, dependability, and trust in complex systems
- Human-centered, ethical, and sustainable computing
- Applications in science, industry, and society
- Sustainable computing solutions

Guidelines:

<https://link.springer.com/journal/11086/submission-guidelines#Instructions%20for%20Authors>

Template: Mathematics and Computer Science

<https://www.pleiades.online/en/authors/guidelines/examples/>

Note: See the [paper template](#). (UPDATED)

Manuscripts should be submitted online at: <https://cmt3.research.microsoft.com/PCS2026>

Important Dates:

Manuscript submission extended deadline: **March 15, 2026**

Final decision notification: May 1, 2026

Camera-ready: June 1, 2026

Publication date: end of 2026

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