## **SPOTLIGHT ON TRANSACTIONS**





This installment of Computer's series highlighting the work published in IEEE Computer Society journals comes from IEEE Transactions on Emerging Topics in Computing.

EEE Transactions on Emerging Topics in Computing (TETC) is a publication covering all emerging aspects of computing in the fields of interest of the IEEE Computer Society. TETC is intended to occasionally host top research papers in selected areas (also known as technical tracks), provided that their contents are of an emerging nature and within the scope of topics currently covered by the technical tracks, as reported on the journal's website: https://www.computer.org/digital-library/journals/ec/technical-tracks.

Although TETC is a relatively new journal in the IEEE Computer Society's portfolio, its impact factor has grown over the years. The recent publication of the 2018 values reports 4.989 for TETC, which is a clear sign (and

not the only one) of the high visibility and impact of its published articles. The impact factor has the same value without the journal's self-citations, thus denoting that the mission of the publication has been successfully accomplished,

that is, to stay on the top of advances in emerging topics and be the primary reference for all researchers working in computing-related areas. This is further confirmed by a five-year impact factor, in which TETC reports a value of 5.245, among the highest for the IEEE Computer Society publications.

All of this has been made possible thanks to our authors and readers, with strong technical support by our editorial board, along with the volunteers who served as guest editors of our very successful special sections. Currently, 75% of the associate editors of IEEE Transactions on Emerging Topics in Computing are either IEEE Fellows or Senior Members.

As of mid-July 2019, we have closed three special sections (from recent to oldest):

 new frontiers in computing for next-generation health-care systems

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- emerging trends and computing paradigms for the testing, reliability, and security of future very large-scale integrated systems
- e-government research, management, and innovation.

Other special sections that have begun or are in the final steps of the approval and launch process are as follows:

- assistive computing technologies for human well-being
- scalable computing for blockchain systems.

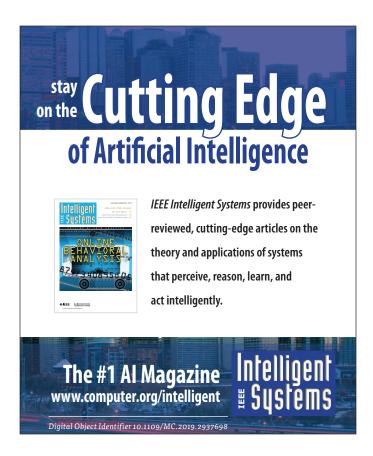
In addition, there is ongoing work to finalize the launch of a joint special section with IEEE Transactions on Secure and Dependable Computing. The journal is soliciting and always open to receive proposals of special sections in the areas of interest related to emerging computing. The instructions and requirements for proposing a special section are found at https://www.computer.org/digital-library/journals/ec/tetc-special-issue-section-proposal-information-rules/.

Through its technical tracks, TETC is at the forefront of computing innovation and interdisciplinary research. A good example is provided by a recent article<sup>1</sup> that combines applied mobile (edge) computing, computational networks, and high-performance computing in the framework of next-generation computing systems. Among the most current hot topics, relevant roles are being played by educational computing,<sup>2</sup> emerging systems for secure computing,<sup>3</sup> and next-generation computing systems.<sup>4</sup>

he (continuous) challenge is open, as every day, new technology advances open new areas and opportunities. *TETC* will be there because whether you are a reader and/or a contributing author, *TETC* is committed to being your reading destination to help you stay up to date in new fields, innovative research areas, and emerging topics in computing.

## **REFERENCES**

- J. Wang, L. Zhao, J. Liu, and N. Kato, "Smart resource allocation for mobile edge computing: A deep reinforcement learning approach," IEEE Trans. Emerg. Topics Comput., Mar. 4, 2019. doi: 10.1109/TETC.2019.2902661.
- G. S. Mahalakshmi, R. Siva, and S. Sendhilkumar, "On the expressive power of scientific manuscripts," IEEE Trans. Emerg. Topics Comput., Sept. 17, 2018. doi: 10.1109/ TETC.2018.2870179.
- X. Liu, R. Deng, K. R. Choo, and Y. Yang, "Privacy-preserving reinforcement learning design for patient-centric dynamic treatment regimes," IEEE Trans. Emerg. Topics Comput., Jan. 30, 2019. doi: 10.1109/ TETC.2019.2896325.
- H. Thapliyal, E. Munoz-Coreas, T. S. S. Varun, and T. Humble, "Quantum circuit designs of integer division optimizing T-count and T-depth," IEEE Trans. Emerg. Topics Comput., Apr. 15, 2019. doi: 10.1109/ TETC.2019.2910870.



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