Special Issue

Evolution of Algorithms in the Era of Generative AI

Message from the Guest Editors

The Generative AI landscape has changed radically in recent years, both in terms of research and industry. Generative AI has transitioned from being a simple experiment to a strategic imperative for all those (academics and industrialists) who want to keep up with the times. Various organizations, both academic and industrial, are starting to use Generative AI not only in pilot programs, but increasingly in full-scale programs. The use of Generative AI promises enormous benefits in terms of improving efficiency, accelerating innovation, and creating new revenue streams. However, the rapid development of this new technology brings with it the need to address new challenges, define appropriate governance, mitigate risk, upskill talent, and manage regulatory uncertainty. The primary goal of this Special Issue is to consolidate and disseminate knowledge on the theoretical aspects and applications of Generative AI algorithms and programming techniques, and to stimulate interdisciplinary collaboration and new discussions on the topic.

Guest Editors

Prof. Dr. Domenico Ursino

Dr. Gianluca Bonifazi

Dr. Enrico Corradini

Dr. Michele Marchetti

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

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