

Simulation

Simulation: Transactions of the Society for Modeling and Simulation International 2024, Vol. 100(6) 525-526 © The Author(s) 2024 DOI: 10.1177/00375497241252173

S Sage



100 Volumes of SIMULATION

This year, we celebrate the publication of the 100th volume of SIMULATION: Transactions of the Society for Modeling and Simulation International (SCS), the flagship journal of SCS. The evolution and growth of modeling and simulation as a scientific field over the past 70 years since the foundation of SCS by John McLeod, and the first volume of SIMULATION in September 1963, has been remarkable. SIMULATION has continuously published high-quality articles and has played a pivotal role in advancing the field, making it a thriving domain in today's scientific landscape. Today, science is based on experimentation, modeling, and simulation. The state-of-the-art knowledge created by these publications has contributed to the progress and success of modeling and simulation as a prominent scientific discipline.

Celebrating a 100th volume is a significant feat, and this milestone shows the commitment and dedication of all volunteers, scientists, editorial board members, and organizers through the years. This is a moment to celebrate our journey and look forward to the future with enthusiasm. Having the honor to be in charge of the journal at this time is an emotional and humbling experience, as well as a major commitment. Reaching the 100th volume of a scholarly journal is a significant milestone that demonstrates longevity, dedication, and relevance in an ever-changing media landscape. It is a testament to the hard work of the team behind the publication, as well as the loyalty and support of its readers. Celebrating such an achievement is a momentous occasion and signifies the journal's impact and success over time.

The celebration will include various meaningful events that I had the pleasure and honor to organize. Our June and July 2024 issues, authored by esteemed members of our Editorial Board, are an important part of this commemoration. Later this year, we will have a special issue consisting of invited articles by Editors-In-Chief of the journal. In addition, we will soon highlight articles with historical value that will be made available to the public, to reflect on important research that has been published by our authors in the last 100 volumes. Finally (as suggested by one of our Associate Editors (AEs), Andreas Tolk, and facilitated by Sage), our readers will enjoy free access to a special collection consisting of a curated list of articles from the 100th volume, which can be found on the journal's website (https://journals.sagepub.com/topic/collections-sim/sim-1-volume 100 highlights?journal Code=sim).

The first article by Philipp Andelfinger and Adelinde M Uhrmacher¹ presents an advanced method for parallel

simulation that uses synchronous optimistic synchronization of tightly coupled agents using the domain-specific language ML3. February's contribution, by Bert Van Acker, Paul De Meulenaere, Hans Vangheluwe, and Joachim Denil, introduces the important topic of validity frames and its integration with Model-Based Software Engineering practices². Next, Yue Zhang and Jie Tan focus on using simulations to study the driving and charging behavior of individuals using electrical vehicles in Shenzhen, China³. April's article, by Rouba Iskandar, Julie Dugdale, Elise Beck, and Cécile Cornou⁴, presents an agent-based simulation for earthquakes, with a case study of the city of Beirut (Lebanon), recreating urban conditions and integrating geographic information systems. May's contribution, by Samuel Carensac, Nicolas Pronost, and Saida Bouakaz, focuses on Lagrangian simulations to quickly initialize 3D fluid simulations⁵. This list is a small sample of the variety of topics we publish and the diversity of research engaged in by our authors, reviewers, and the Editorial Board. We will update the list of articles monthly, providing readers with one free article per issue until the end of the Volume 100.

In recent years, SIMULATION has been reorganized to be in line with research in the 21st century. This included a complete revamping of the Editorial Board, bringing on board some of the top researchers in the field, and guaranteeing a thorough review process with a quick turnaround time. At present, the journal receives around 600 articles per year, with an average time to first decision of about 3 months. Only high-quality articles are published. This involves thousands of reviews conducted by our team, which are performed independently and with comprehensive insights and details, providing authors with the best possible feedback on their research. We acknowledge reviewers with Web of Science researcher profiles (formerly Publons), and the top reviewers receive monthly awards to recognize their contributions (which are highlighted on our website). The Editorial Board is renewed following a well-defined process. We work on enhancing the journal's impact by following quality indexes (Web of Science, Scopus, Scimago, and others) and by focusing on manuscript quality and the scope of the research. The journal has a modern website with varied information, including published articles, awards, collections of papers, and a section of freely accessible articles chosen by the Editor on a yearly basis. Articles are published online shortly after acceptance, giving early access to the public before print publication.

We publish a variety of special issues each year, and in this particular case, members of the Editorial Board contributed to the celebration of our 100th Volume by authoring research articles in their own fields of expertise. This serves us as an example to reflect on the countless insightful research articles, reviews, and innovative ideas that have graced our pages. We are grateful to the dedicated researchers, reviewers, editorial board members, and readers who have contributed to our journal's legacy.

Here's to the next 100 volumes!

Gabriel A Wainer Department of Systems and Computer Engineering, Carleton University, 1125 Colonel By Drive, 3216
V-Sim, Ottawa, ON K1S 5B6, Canada.

ORCID iD

Gabriel A Wainer (D) https://orcid.org/0000-0003-3366-9184

References

- 1. Andelfinger P and Uhrmacher AM. Synchronous speculative simulation of tightly coupled agents in continuous time on CPUs and GPUs. *Simulation* 2024; 100: 5–21.
- Van Acker B, De Meulenaere P, Vangheluwe H, et al. Validity frame—enabled model-based engineering processes. Simulation 2024; 100: 185–226.
- 3. Zhang Y and Tan J. A data-driven approach of layout evaluation for electric vehicle charging infrastructure using agent-based simulation and GIS. *Simulation* 2024; 100: 299–319.
- Iskandar R, Dugdale J, Beck E, et al. Agent-based simulation of seismic crisis including human behavior: application to the city of Beirut, Lebanon. *Simulation* 2024; 100: 357–377.
- Carensac S, Pronost N and Bouakaz S. Fluid initialization and dynamic window for smoothed-particle hydrodynamics simulation. Simulation 2024; 100: 455–472.