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WESAAC 2025

19th Workshop-School on Agents, Environments, and Applications,
part of the 35th Brazilian Conference on Intelligent Systems (BRACIS)

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FOREWORD

This year, we celebrate the first edition of WESAAC held jointly with BRACIS, reinforcing the perspective of growth for the event and the agents' research area in Brazil. In total, we received 42 submissions and accepted 34 papers — the second-largest absolute number in the WESAAC series — evidencing the recovery of both the community and the event itself in the post-pandemic period.

Aligned with WESAAC's future goals, the Program Committee was reviewed and expanded with new national and international researchers in order to support the increase in submissions, maintain the quality of the review process, and ensure deadlines are met.

The works in this edition provide a comprehensive overview of the versatility and continuous advancement of the agent approach in solving complex problems across multiple domains. We had broad institutional participation, involving universities and research centers from different regions of Brazil — such as CEFET/RJ, FURG, IFSP, PETROBRAS, UDESC, UFBA, UFC, UFF, UFPE, UFPel, UFSC, UnB, UNICAMP, Unieuro, UTFPR, and USP — as well as from international institutions — such as the University of Bologna, MINES Saint-Étienne, University of Aberdeen, and University of St. Gallen. This diversity reinforces the collaborative and plural character of the WESAAC community and enriches the scientific dialogue between academia and industry.

The papers highlight the vitality of research in MAS, with a focus on autonomy, collaboration, and adaptive intelligence to address contemporary technological and social challenges. To facilitate navigation, the papers were organized into thematic sections: Agent Architectures and Theories; Agent Organizations, Societal Issues, and Normative Systems; Agent-Based Software Development; Agents in Embedded and Robotic Systems; Applications of Agents and Multi-Agent Systems; and Social Simulations and Agent-Based Simulation.

We also highlight the publication of the WESAAC historical series in the Digital Library of the Brazilian Computer Society, SBC OpenLib (SOL). In 2025, the proceedings were published in SOL, and each paper received a digital identifier (DOI), fostering future indexing in databases such as DBLP, CORE, and Google Scholar.

In this edition, the three best papers of the event received honorable mentions, and the three best undergraduate papers were invited to publish an extended version in a special issue of the *Electronic Journal of Undergraduate Research on Computing* (REIC).

The community thanks Professors Jaime Simão Sichman and Célia Ghedini Ralha for their dedication to the community and to the special committees on Artificial Intelligence of SBC, which allow the integration of WESAAC into the largest AI event in Brazil. We also thank the members of the Advisory Committee for their commitment and collaborative efforts in shaping this edition.

We express our gratitude to the general coordinators of BRACIS — especially Professor Paulo de Tarso Guerra Oliveira and his team — for their support, patience, and understanding of WESAAC's integration with BRACIS. Without this partnership, the realization of this event would not have been possible. Finally, we thank all authors and participants of WESAAC.

See you next year.

Carlos Pantoja, Eduardo Ferreira da Silva, Nilson Lazarin, and Bruno Freitas

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