

## **Editorial Note of volume 25 number 1 of the year 2026**

The articles published in this issue of the EJS journal are expanded and revised versions of the best papers presented at the 54th Argentine Conference on Informatics (JAIIO), which were carefully evaluated and selected by the experts who make up the program committees.

The JAIIO. Argentine Conference on Informatics, organized annually by SADIO since 1961 and is the most important Argentine meeting between researchers and professionals in Information Technology, in which the results of developments, conclusions of research works and professional experiences are presented and discussed.

The 54 JAIIO were held from August 4 to 7, 2025 in the Cero+Infinito Pavilion of the University of Buenos Aires, in the Autonomous City of Buenos Aires and were co-organized by the ICC, Institute of Computer Science and the DC, Department of Computing of FCEN-UBA. The activities were developed in up to seven sessions simultaneously. If you want more information, you can consult the details of activities on the <https://54jaiio.sadio.org.ar/> website

The General Coordination was in charge of María Elena Buemi (DC-FCEN-UBA; ICC-UBA/CONICET) and Pablo Turjanski (DC-FCEN-UBA; ICC-UBA/CONICET)

We express our special thanks to the presidents of the following symposia of the 54 JAIIO who collaborated in the selection and evaluation of the articles published in this edition of the EJS:

ASAIID- Argentine Symposium on Artificial Intelligence and Data Science: Maximiliano Budán (Universidad Nacional del Sur / Universidad Nacional de Santiago del Estero / CONICET), Viviana Cotik (DC-FCEyN UBA/ICC-CONICET), Melisa Escañuela (Universidad Nacional de Santiago del Estero / CONICET) and Gustavo Guaragna (Snoop Consulting)

ASQC – Argentinean Symposium on Quantum Computing: Federico Holik (Instituto de Física La Plata | CONICET) and Luis Mariano Bibbó (National University of La Plata)

ASSE - Argentine Symposium on Software Engineering: Carlos López Pombo (National University of Río Negro – CONICET) and Pablo Ponzio (National University of Río Cuarto – CONICET)

JUI - University-Industry Linkage Conference: Ricardo Medel (Dr. Manuel Sadosky Foundation) and Rosita Wachenchauer (FIUBA)

SACS - Argentine Cybersecurity Symposium: Gladys Martínez (Air Force), Rubén Darío Aybar (AFIP – ICFFAA – UBA – UNSO – UCASAL – FIE), Lía Molinari

(UNLP) and Gerardo Simari (UNS)

SAIV - Argentine Symposium on Images and Vision: Daniel Acevedo (DC-FCEyN UBA/ICC-Conicet), Claudio Delrieux (CONICET, UNS) and Juliana Gambini (UNAHUR)

SIIO - Argentine Symposium on Industrial Informatics and Operations Research: Mariano Frutos (UNS), Mariana Cóccola (CONICET / UTN-FRCU), Diego Rossit (UNS) and Silvia A. Ramos (UBA)

The executive coordination was in charge of Claudia Pons (SADIO - UNLP/UAI), Rodrigo Santos (SADIO - Universidad Nacional del Sur) and Alejandra Villa (SADIO)

A total of 722 registered were registered, of which 675 were Argentines. The foreign participants came from Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Spain, the United States, France, Italy, Kenya, Mexico, Paraguay, Peru, Switzerland and Uruguay. The 675 Argentine participants came from Buenos Aires, CABA, Chaco, Chubut, Córdoba, Corrientes, Entre Ríos, Jujuy, La Pampa, La Rioja, Mendoza, Misiones, Neuquén, Rio Negro, Salta, San Juan, San Luis, Santa Cruz, Santa Fe, Santiago del Estero and Tucumán, highlighting the federal nature of the JAIIO. The profile of the attendees was mainly composed of professionals and technicians, teachers and researchers as well as advanced undergraduate and graduate students.

In total, more than 400 papers were received, of which about 300 were accepted and presented after a rigorous review process by expert committees of each of the symposia. In addition to the presentation of the accepted papers, each symposium included lectures by specialists and panel discussions on various topics. In summary, more than 90 conferences, panels, company talks and cultural activities were added to the program.

Plenary conferences were held with prominent national and international speakers, including Sebastián Uchitel (CONICET-UBA), Ana Maguitman (ICIC CONICET-UNS), Marcelo Frías (ITBA-University of Texas at El Paso), Alan Kay (winner of the ACM Turing Award), Salvador Venegas Andraca (University of Oxford-Tecnológico de Monterrey) and Daniel Yankelevich (Fundar). The full program can be found at: <https://54jaiio.sadio.org.ar/programa/>

All the works approved and effectively presented during the JAIIO were published in the Memorias de las JAIIO in <https://revistas.unlp.edu.ar/JAIIO> under ISSN 2451-7496. Extended versions of the most outstanding papers of each symposium are published in the Electronic Journal of SADIO (EJS) ISSN 1514-6774, a member of the Basic Nucleus of Scientific Journals (NBR) of CONICET.

The 54 JAIIO once again managed to bring together the main references in the area, presenting presentations that represented the state of the art in developments in artificial intelligence, software engineering, information technology and processing of

large volumes of data and vertical markets applicable to Health, Law, Industry, among others. The audience's interest in artificial intelligence in all its dimensions can be highlighted, in particular for the need to know about new applications, establish guidelines for their application and for the debate on their ethical aspects. The relevance of the development of quantum computing was confirmed, reflected in the call and enthusiasm generated by the new ASQC symposium. In the same way, the recently inaugurated SIMS symposium had an auspicious start, standing out for the quality of the works presented and the interest of the community in the area of modeling and simulation. The importance of continuing to deepen the issues of cybersecurity and cyber defense was also highlighted. It was very encouraging to observe groups of students motivated by contact with specialists discussing cutting-edge technologies.

With this momentum, the organization of the 55 JAIIO has already begun, which will be held in the city of La Plata, Buenos Aires, during the month of August 2026. <https://55jaiio.sadio.org.ar/>

We hope that the articles published in this issue of the EJS will be of interest and usefulness to our readers.

Claudia Pons, Alejandra Garrido and Rodrigo Santos (Editors)

Ciudad Autónoma de Buenos Aires, February 1, 2026