Editorial

Dear readers,

Scientific and technological progress is consolidated when knowledge is built through the integration of diverse contexts, disciplines, and perspectives. Issue 35 of our journal exemplifies this principle by bringing together scholarly contributions from Latin America, Asia, and the Middle East, thereby consolidating an international and multidisciplinary editorial space for the dissemination of scientific and technological knowledge.

From a geographical perspective, this issue highlights valuable international collaboration. Contributions from Mexico are represented by the Autonomous University of Baja California; Brazil by the Pontifical Catholic University of Paraná; India by Lovely Professional University; and Saudi Arabia by the University of Jazan. Within Latin America, and particularly from Ecuador, research contributions originate from well-recognized institutions such as the Pontifical Catholic University of Ecuador (Esmeraldas Campus), the Technical University of Machala, the National University of Loja, the University of Cuenca, UTE University, and Universidad Politécnica Salesiana.

This geographical diversity reflects both the journal's international positioning and the strengthening of South–South scientific networks, as well as the integration of global perspectives into applied research.

Regarding the disciplines and thematic areas addressed, this issue is characterized by a strong focus on engineering, artificial intelligence, energy systems, computing, and technologies aimed at solving real-world problems. The published articles include studies on energy consumption optimization in remote oil camps, advanced computational analyses for jet engine optimization using computational fluid dynamics (CFD) and multidisciplinary approaches, as well as research on electrical power systems and short-circuit analysis in overhead distribution networks. A particularly relevant aspect of this issue is the application of machine learning and deep learning techniques across multiple domains. These methodologies are used in medical fracture classification, semantic segmentation of defects in photovoltaic panels, urban accessibility assessment, emission estimation in internal combustion engines, and the classification of agro-industrial products such as specialty Loja coffee. Collectively, these contributions highlight the transversal role of artificial intelligence as a driver of technological innovation and data-driven decision-making.

The scientific and professional contributions of the articles published in this issue are substantial. On the one hand, they advance theoretical knowledge through robust models, algorithms, and reproducible methodologies; on the other, they offer practical solutions with direct impact on strategic sectors such as energy, healthcare, industry, transportation, environmental management, and urban planning. This balance between methodological rigor and practical applicability is a fundamental pillar of the journal's editorial policy.

We invite researchers, academics, and professionals to use the articles published in this issue as references, to critically engage with their findings, and to cite them in future scholarly work, thereby contributing to the visibility, impact, and continuity of the scientific knowledge generated.

Finally, we extend our sincere appreciation to all authors who entrusted their manuscripts to our journal, as well as to the reviewers and evaluators whose expertise and ethical commitment ensure the scientific quality and academic integrity of each publication. Their collaboration reaffirms the journal's role as a respected platform for disseminating high-quality research in science and technology.

John Calle-Siguencia, PhD

Editor in Chief