

Dear readers,

Each new issue of a scientific journal represents an opportunity to strengthen the dialogue among researchers, institutions, and disciplines that contribute to the advancement of science and technology. Issue 36 of *INGENIUS Journal* brings together ten original research articles that demonstrate thematic diversity, methodological rigor, and the growing internationalization of applied research, further consolidating the journal as a platform for disseminating scientific knowledge aimed at addressing contemporary technological challenges.

The published contributions cover strategic areas of engineering and emerging technologies. In the field of smart manufacturing and Industry 4.0, this issue presents a collaborative robotics approach for automotive seat belt assembly supported by RoboDK simulation, highlighting the potential of cobots to enhance productivity and industrial safety. In the area of artificial intelligence, the issue includes a comparative framework for electrical load forecasting based on machine learning techniques and rolling temporal validation, as well as a comparative study of state-of-charge estimation methods for lithium-ion batteries using Bayesian filters and machine learning algorithms.

Sustainability constitutes another cross-cutting theme throughout this issue. The published studies address the vulnerability of Ecuador's energy system to climate change and investigate the use of biological waste, such as eggshell powder, as a sustainable corrosion inhibitor for carbon steels employed in the oil and gas industry. These contributions demonstrate how engineering can simultaneously address environmental, energy, and industrial challenges through innovative solutions grounded in circular economy principles.

Digital technologies also occupy a prominent place in this issue. A methodological framework for the Quantum Software Development Life Cycle is

introduced, providing a structured approach for a discipline with enormous scientific and technological potential. Likewise, research focused on improving web accessibility in accordance with the WCAG 2.1 guidelines promotes the development of more inclusive digital platforms. Complementing these topics are contributions on neural-network-based control of flexible systems, the influence of operating variables on automotive air-conditioning system performance, and a systematic review of swarm intelligence algorithms for unmanned aerial vehicle route planning, an increasingly relevant research area in robotics and autonomous systems.

This issue also reflects a strong commitment to international scientific collaboration. The published articles bring together researchers from universities and research institutions in Ecuador, Spain, Brazil, Saudi Arabia, and Chile, strengthening collaborative research networks that enrich scientific quality and foster the exchange of knowledge across diverse academic and technological environments.

The Editorial Board sincerely thanks the authors for entrusting their research to *INGENIUS Journal*, the reviewers for their commitment to a rigorous and objective peer-review process, and our readers for extending the impact of the published knowledge through its consultation, application, and scholarly discussion.

Finally, we encourage researchers, academics, professionals, and students to explore the articles published in this issue, incorporate their findings into future research, and cite them whenever appropriate. We also warmly invite the international scientific community to submit their original contributions to future issues of *INGENIUS Journal*, convinced that the open exchange of scientific knowledge remains a fundamental pillar for fostering innovation and advancing the progress of our societies.

John Calle-Siguencia, PhD

Editor in Chief