



Universidad Católica  
de Santa María



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Editors

**JINIS 2023**

## **International Conference on Systems Engineering**

**Universidad Católica de Santa María, Arequipa - Perú**

**October 03rd to 05th 2023**

**Proceedings**

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## Preface

The Universidad Católica de Santa María presents the International Symposium on Systems Engineering (JINIS), from October 3rd to October 5th, 2023. For 29 years, this conference has been a beacon of knowledge and innovation at the Catholic University of Santa María, from its first edition in 1992 to the present day. Over the years, JINIS has brought together prominent scientists, researchers, and entrepreneurs in the field of systems engineering, both nationally and internationally.

The primary purpose of this event is to foster the exchange of ideas and the advancement of knowledge around systems engineering. This year, we are proud to once again present an agenda filled with relevant and cutting-edge topics addressing the most current challenges and opportunities in the field.

From cybersecurity and data protection to machine learning and responsible artificial intelligence, the selected thematic axes and topics reflect the diversity and complexity of the issues we face today. We hope that these Proceedings will serve as an invaluable source of information and a stimulus for future research and developments in the field of systems engineering.

We extend our sincerest gratitude to all authors, reviewers, sponsors, and participants who have contributed to the success of this event. Without their dedication and collaboration, this achievement would not have been possible.

December 2023

The editors.



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