



## Invited session:

### Latin America Research in Maintenance and Asset Management

#### Organizers

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Enrique López Droguett	University of California, Los Angeles	<a href="mailto:eald@ucla.edu">eald@ucla.edu</a>
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#### Abstract (limited to 300 words)

Maintenance and asset management in the countries of Latin America have experienced a great advance in recent years. Mainly starting within oil & gas, maintenance and asset management are being applied in different sectors spacing from mining and energy towards infrastructures and health, amongst others. However, the journey to reach an effective and efficient management is far from over. For instance, a Colombian survey from 2018 and involving 411 companies showed that 19% of the sampled companies were already applying asset management (either ISO 55001 or PAS 55), and 20% were close to it. However, most of the surveyed enterprises still considered maintenance as an operational activity, rather than a strategic one. To improve the Latin America landscape, academia and industry are called to collaborate to explore the added value that maintenance and asset management can bring to enterprises. Given the above, this invited session is meant to call for contributions from Latin America researchers concerning maintenance and asset management. One of the intrinsic objectives of this session is to contribute to the building of a Latin America network of universities and industries working in Maintenance and Asset Management.

#### Keywords

This special session calls high-quality contributions that investigate the main research challenges, reviews, case studies, and applications related to the following topics (but not limited to):

- Asset Integrity and Management
- Artificial Intelligence
- Condition Monitoring
- Diagnostics and Prognostics
- Data and Knowledge-drive Maintenance
- Industrial Internet of Things
- Industrial Success Stories
- Life Extension
- Logistics and Maintenance Systems
- Low-cost Monitoring Approaches
- Maintenance Management
- Risk Based Inspection
- Smart Retrofitting

#### Invited papers

Insert in the following table, at least five papers that will be submitted to the invited session.

Paper Title	Corresponding Author	Email
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Latin America Research in Maintenance and Asset Management: a bibliometric analysis	Giacomo Barbieri	<a href="mailto:g.barbieri@uniandes.edu.co">g.barbieri@uniandes.edu.co</a>
Maintenance and Asset Integrity Management at the Naval Architecture and Ocean Engineering from University of São Paulo	Marcelo Ramos Martins	<a href="mailto:mrmartin@usp.br">mrmartin@usp.br</a>
On-line bearings condition monitoring in the press section of a paper mill	Diego Cabrera	<a href="mailto:dcabrera@ups.edu.ec">dcabrera@ups.edu.ec</a>
DataBruin: an open access and web-based solution for Deep Learning Based Predictive Maintenance	Enrique López Droguett	<a href="mailto:eald@ucla.edu">eald@ucla.edu</a>
Fault diagnosis in reciprocating compressor bearings: an approach using LAMDA applied on current signals.	Mariela Cerrada	<a href="mailto:mcerrada@ups.edu.ec">mcerrada@ups.edu.ec</a>
Petri net based reliability and availability analysis to support asset management: a CODOG propulsion system case study	Gilberto F. M. de Souza	<a href="mailto:gfmsouza@usp.br">gfmsouza@usp.br</a>