



# CONGRESS REPORT

16TH WORLD CONGRESS ON ENGINEERING ASSET MANAGEMENT

**Value-centered and  
Intelligent Asset  
Management in the 4th  
Industrial Revolution Era**

**Seville, 5-7 October**

**2022**  
EDITION



# ORGANIZERS

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# OUR PROFILE

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Seville, a city located in southern Spain, has had the pleasure of hosting the 16th World Congress on Engineering Asset Management. **WCEAM 2022** has brought together experts in the application of techniques to achieve intelligent asset management in an industrial environment. The main premise of the congress' theme was how to integrate intelligence into asset management, through the management of value, knowledge and risk.

# THE OBJECTIVE

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In this 16Th WCEAM we wanted to combine academic and industrial presence, seeking a broad perspective of current asset management.

# CHAIRS

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Prof. Joe Amadi-Echendu. General Chair. Chair ISEAM, University of Pretoria, South Africa

Prof. Adolfo Crespo Márquez. 16Th WCEAM Chair. University of Seville, Spain

# VENUES

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**Meliá Sevilla.** Calle Dr. Pedro de Castro, 1, 41004 Sevilla

**Welcome Cocktail.** Real Fábrica de Tabaco. University of Seville's Rectorate building.

**Gala Dinner.** Royal Ballroom Hotel Alfonso XIII

# ORGANIZING COMMITTEE

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Prof. Joe Amadi-Echendu

Prof. Adolfo Crespo Márquez

Prof. Pedro Moreu de León

Antonio Sola Rosique

Lourdes del Castillo Silva

Prof. Antonio Guillén López

María Crespo Márquez

# STEERING COMMITTEE

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Prof. Joe Amadi-Echendu (South Africa)

Prof. Adolfo Crespo Márquez (Spain)

Saeed Ramezani (Iran)

Prof. Brett Kirk (Vietnam)

Prof. Belle Upadhyaya (USA)

Prof. Pedro Moreu de León (Spain)

Prof. Irene Roda (Italy)

Prof. Fredy Kristjanpoller (Chile)

Melinda Hodkiewicz (Australia)

# TECHNICAL REVIEW PANEL

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Prof. Joe Amadi-Echendu. (South Africa)  
Prof. Adolfo Crespo Márquez (Spain)  
Prof. Joe Mathew (Australia)  
Prof. Dragan Komljenovic (Canada)  
Prof. Marco Macchi (Italy)  
Prof. Ajith Kumar Parlikad (UK)  
Prof. Belle Upadhyaya (USA)  
Prof. Vicente González-Prida Díaz (Spain)  
Prof. Juan Gómez Fernández (Spain)  
Prof. Carlos Parra Márquez (Venezuela-Panama)

# AWARDS

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Best Paper Innovations in Asset Management  
Best Paper Digital Twins, Simulation and Enhanced Maintenance  
Best Paper Monitoring and Diagnostics of Engineering Systems  
Best Industry Paper

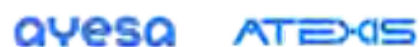
# SPONSORS

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## Gold Sponsors



## Silver Sponsors



## Bronze Sponsors



# REGISTRATION

|   |            |
|---|------------|
|   |            |
| Phd Student Early                                     | 12         |
| Phd Student Standard                                  | 2          |
| PHD Student without Attendance Social Events Early    | 4          |
| PHD Student without Attendance Social Events Standard | 1          |
| Congress Fee Early                                    | 45         |
| Congress Fee Standard                                 | 14         |
| Congress Fee Late                                     | 5          |
| One day Congress                                      | 8          |
| ISEAM Fellow Member                                   | 1          |
| Special Fee for Iranien Ctizens                       | 4          |
| Extra Registration                                    | 1          |
| Accompanying person                                   | 5          |
| Sponsor Registration                                  | 56         |
| Invited & Organizing Committee                        | 10         |
| <b>TOTAL NUMBER OF PARTICIPANTS</b>                   | <b>170</b> |

# 16TH WCEAM OVERALL NUMBERS

| Presented Paper         | 74 |
|-------------------------|----|
| Special Plenary Session | 7  |
| Concurrent Session      | 13 |
| Workshop                | 2  |
| Bussiness Session       | 3  |
| University Session      | 1  |
| Pannel Sessions         | 3  |
| Chairs                  | 16 |



# 16TH WCEAM PROCEEDINGS

16TH WORLD CONGRESS ON ENGINEERING ASSET MANAGEMENT

**2022**  
EDITION

|            |   |
|------------|---|
| Book Title | 16th WCEAM Proceedings  |
| Editors    | Adolfo Crespo Márquez<br>Joe Amadi-Echendu<br>Vicente González-Prida Díaz<br>Juan Francisco Gómez Fernández |
| Publisher  | Springer Cham   |
| Chapters   | 66 Full Papers finally accepted<br>out of 73 extended papers<br>submitted                                   |
| Reviewers  | 48 ISEAM Fellows plus other external<br>reviewers   |