

Under the patronage of **HRH Prince Khalid Al-Faisal**
Advisor to the Custodian of the Two Holy Mosques
& Governor of Makkah Region



المؤتمر الدولي الثاني والعشرون لإدارة الأصول والمرافق والصيانة
The 22nd International Asset, Facility & Maintenance
Management Conference

Digitization.. Excellence.. Sustainability

Under the theme: Sustainable Operational Excellence
for Digitalization of Assets, Facility, and Maintenance

CONFERENCE PROGRAM

26-28 January 2025

Ritz-Carlton Hotel in Jeddah, Saudi Arabia

AN INITIATIVE BY

OMAINTEC
المجالس العربية لإدارة الأصول والمرافق والصيانة
Arab Asset, Facility and Maintenance Management Council

EXECUTED BY

TSG | EXICON.
شركة مجموعة المختص • The Specialist Group

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OFFICIAL TRANSPORTER



COLLABORATORS



Day 01: Sunday 26 January 2025

Registration

07:00 – 09:00

3 PARALLEL WORKSHOPS

09:00 – 10:00

1st Workshop | Room 1

How Digitalization
Could Change Control
Systems in Metro and
Railways Systems

2nd Workshop | Room 2

Predicting Failures
of Buildings, Roads
and Bridges Utilising
Artificial Intelligence
and Machine Learning

3rd Workshop | Room 3

Fundamental of
LCC Digitization



Coffee Break

3 PARALLEL WORKSHOPS

10:30 – 11:30

4th Workshop | Room 1

How to Have a Successful
Career Path in the
Facility and Asset
Management Industry

5th Workshop | Room 2

Digital Twin Relays
and Test Sets Enables
Virtual Relay Testing

6th Workshop | Room 3

Real-Time IoT (Internet
of Things) Monitoring
in Medical Equipment

Break

11:30 – 11:45

OPENING CEREMONY | HALL A



Coffee Break

12:45 – 13:15

Panel Discussion:
**International Experiences in Asset, Facility, and
Maintenance Management (Experiences from China)**

HALL A
13:15 – 14:15

Experiences and Practices in Digitizing Operations and Maintenance Procedures
in China (The Guest Country)



Lunch

14:15 – 15:00

3 PARALLEL WORKSHOPS

15:00 – 16:00

7th Workshop | Room 1

Digital Infrastructure
Mapping

8th Workshop | Room 2

Sustainable Predictive
Maintenance Applications
for Assets and Facilities

9th Workshop | Room 3

Using Digital Technology
in Medical Devices within
the Standards of Facility
Management and Safety
FMS in Healthcare

Day 02: Monday 27 January 2025

Registration

07:00 – 09:00

2 PARALLEL SESSIONS

09:00 – 10:15

HALL A – Session 01

**Innovating Asset Management:
Embracing Digital Solutions
for Enhanced Performance**

HALL B – Session 01

**Electrical Track:
Operational Challenges,
Resilience and Grid Security**



Coffee Break

10:15 – 10:25

2 PARALLEL SESSIONS WITH A WORKSHOP

10:25 – 11:25

HALL A – Session 02

**Innovative Solutions for Smart Facility
Management**

HALL B – Session 02

**Electrical Track:
Grid Modernization
and Sustainability**



Coffee Break

11:25 – 11:35

2 PARALLEL SESSIONS

11:35 – 12:35

HALL A – Session 03

**The Role of IoT in Smart
Maintenance Practices**

HALL B – Session 03

**Electrical Track: Smart Solutions
& Advance Monitoring**



Lunch

12:35 – 13:15



IMA COINCIDE EVENT

**International Maintenance Association Guideline of
Digitalization of Assets, Facilities, and Maintenance
Management**

Re-Shaping the Future of Maintenance

HALL A

13:15 – 14:45

Break

14:45 – 15:00

2 PARALLEL SESSIONS WITH A WORKSHOP

15:00 – 16:00

HALL A – Session 04

**Future Trends in
Sustainable
Transportation
Infrastructure**

HALL B – Session 05

**Innovative Strategie
for Water Systems
Management**

10th Workshop | Room 1

**Enhancing Infrastructure
Asset Management Through
Stakeholder Dynamics and
Collaboration**

Day 03: Tuesday 28 January 2025

Registration

07:00 – 09:00

2 PARALLEL SESSIONS

09:00 – 10:15

HALL A – Session 06

**Strategic Asset Planning
and Performance Optimization**

HALL B – Session 07

**Role of Training and Education in
Empowering Asset and Facility Management**



Coffee Break

10:15 – 10:25

2 PARALLEL SESSIONS WITH WORKSHOP

10:25 – 11:25

HALL A – Session 08

**Innovative Asset and
Facility Solutions
for Enhanced Resilience**

HALL B – Session 09

**Cybersecurity and
Sustainable
Innovation in Smart
Maintenance**

10:25 – 12:25

11th Workshop | Room 1

**Optimizing Asset
Performance:
The Strategic
Integration of
Smart Power
Transformers in
the Saudi Arabia
Electricity Network**



Coffee Break

11:25 – 11:35

2 PARALLEL SESSIONS

11:35 – 12:45

HALL A – Session 10

**Advancements in
Digital Solutions for
Predictive Maintenance**

HALL B – Session 11

**Exploring New Horizons in
Maintenance and Design**

Break

12:45 – 13:15

**Panel Discussion:
Regional Experiences in Asset, Facility, and Maintenance
Management: Enhancing Maturity Levels in Asset and
Facility Management**

**HALL A
13:15 – 14:15**

Transition

14:15 – 14:20

**General Assembly Meeting of the Arab Asset, Facility
and Maintenance Management Council**

14:20 – 15:00

CLOSING SESSION

15:00 – 15:30



Lunch

15:30

Conference Topics & Tracks



**Asset Management and
Maintenance Systems**



**Buildings and Facility
Management**




**Electrical
Systems**



**Roads and
Transportation
Systems**



**Communication
Systems, Smart
Maintenance and
Cybersecurity**



**Water
Systems**



**Education
and Training**

A person wearing a hard hat and a dark jacket is shown in profile, interacting with a glowing, circular interface. The interface consists of concentric rings of blue and purple light. The background is dark, with a faint wireframe cityscape visible at the bottom. The overall atmosphere is futuristic and technological.

Day 01
26 January 2025

Day 01: Sunday 26 January 2025

Registration

07:00 – 09:00

3 PARALLEL WORKSHOPS

09:00 – 10:00

1st Workshop (Room 1)

**How Digitalization Could Change Control Systems
in Metro and Railways Systems**

Eng. Simone Bernasconi

Founder & CEO, Avalor, Switzerland

2nd Workshop (Room 2)

**Predicting Failures of Buildings, Roads and Bridges
Utilising Artificial Intelligence and Machine Learning**

Prof. Mufid Samarai

Senior Advisor, Sahara GCC, United Arab Emirates

3rd Workshop (Room 3)

Fundamental of LCC Digitization

Dr. Isam Kabbani

Owner & CEO, Al Kabbani Engineering Consulting Office, Saudi Arabia



Coffee Break

10:00 – 10:30

Day 01: Sunday 26 January 2025

3 PARALLEL WORKSHOPS

10:30 – 11:30

4th Workshop (Room 1)

How to Have a Successful Career Path in the Facility and Asset Management Industry

Eng. Ali Alsuwaidi

Vice President, MEFMA, United Arab Emirates

5th Workshop (Room 2)

Digital Twin Relays and Test Sets Enables Virtual Relay Testing

Eng. Ali Husain

Sales Application Engineer, Protection Segment Leader, Megger Middle East, Bahrain

Eng. Andrea Bonetti

Senior Specialist in Power System Protection and IEC 61850 Applications, Megger, Sweden

Eng. Niclas Wetterstrand

Global Industry Director for Utilities, Megger, Sweden

Eng. Cedric Harispuru

Product Manager, Senior Key Expert, Siemens, Germany

6th Workshop (Room 3)

Real-Time IoT (Internet of Things) Monitoring in Medical Equipment

Eng. Jihan Aleid

Operation Assistant Manager, Wajdlife Trading Co., Saudi Arabia

Break

11:30 – 11:45

Day 01: Sunday 26 January 2025

OPENING CEREMONY

HALL A
11:45 – 12:45



Coffee Break

12:45 – 13:15

Panel Discussion: International Experiences in Asset, Facility, and Maintenance Management (Experiences from China)

HALL A
13:15 – 14:15

Experiences and Practices in Digitizing Operations and Maintenance Procedures in China (The Guest Country)

Prof. Baowen Li

Chairman of Huamou Consulting Technology (shenzhen) Co. Ltd, China

Prof. Baoqiang Xu

Associate Professor, School of Mechanical and Electrical Engineering, Guangzhou University, China

Eng. Yuchang Zhang

Independent advisor of R&D program, Beijing Centraltech Co. Ltd., China

Eng. Colin Ning

Head of International Business Development, Yado Monitoring Technology Co. Ltd., China



Lunch

14:15 – 15:00

Day 01: Sunday 26 January 2025

3 PARALLEL WORKSHOPS

15:00 – 16:00

7th Workshop (Room 1)

Digital Infrastructure Mapping

Ms. Katherine Pfeil

Head of Sales, Inframappa, United States

8th Workshop (Room 2)

Sustainable Predictive Maintenance Applications for Assets and Facilities

Prof. Hossam Elborombaly

X-head Of Architecture Department, Ain Shams University, Egypt

9th Workshop (Room 3)

Using Digital Technology in Medical Devices within the Standards of Facility Management and Safety FMS in Healthcare

Dr. Ibrahim Andijani

Consultant Biomedical Engineer and Director of facility
Safety Department, Prince Sultan Military Medical City, Saudi Arabia

Eng. Fayad Daraghmeh

General Manager, Steady Solutions, Jordan



Day 02

27 January 2025

Day 02: Monday 27 January 2025

Registration

07:00 - 9:00

2 PARALLEL SESSIONS

09:00 - 10:15

Hall A

Keynote Speaker: 09:00 – 09:15

A New Age: Maintenance for Sustainability

Dr. Eng. Franco Santini

Former President of Aiman

Former Chairman of EU CEN MAINTENANCE 319

Italy

Session 01: Innovating Asset Management: Embracing Digital Solutions for Enhanced Performance

Chairman:

Eng. Mohammed Abu Afifeh

Board Member, Arab Asset, Facility
and Maintenance Management Council
(OMAINTEC), CEO, Conceliare, Jordan

Asset Digitalization Model and Asset Health Management

Prof. Adolfo Crespo Marquez

Professor, Universidad De Sevilla, Spain

Are You Planning for Assets & Facility Management Digitization? Go for Full Solutions

Eng. Fayad Daraghmeh

General Manager, Steady Solutions, Jordan

Digitization in Facilities and Maintenance Operations: Modern Trends, Benefits, and Implementation Challenges

Eng. Abdul-basit Sheikh

Project Manager, City Cool, Saudi Arabia

Fostering Innovation through Leveraging Disruptive Technologies

Eng. Yazeed Al-Owaid

Programs Director, Saudi Aramco, Saudi Arabia

Hall B

Session 01: Electrical Track: Operational Challenges, Resilience and Grid Security

Chairman:

Eng. Abdulrahman Alghaiheb

Head of Asset Management Division
National Grid, Saudi Arabia

Exposing Hidden Flaws in the Power Grid: Lessons learned from IDS Deployments in Over 100 Energy Facilities

Amro Mohamed

Regional Cybersecurity Sales Manager, MEA
Region, Omicron Electronics Middle East, Bahrain

Fault Management in HVDC Transmission Lines

Eng. Ahmad Abdullatif

Project Manager, Advanced Communication
and Electronics Systems Co., Saudi Arabia

Partial Discharge Diagnostic of High Voltage Power Cables with Associated Accessories and the Human Experience for Installation

Eng. Mostafa Ahmed

Transmission Engineer, Saudi Electricity Company
Saudi Arabia

Short Circuit Faults Prediction Using Machine Learning in Large-Scale Power System

Eng. Ahmed Alawami

Division Manager, Saudi Electricity Company,
Saudi Arabia



Coffee Break

10:15 – 10:25

Day 02: Monday 27 January 2025

2 PARALLEL SESSIONS

10:25 – 11:25

Session 02: Innovative Solutions for Smart Facility Management

Hall A

Chairman:

Eng. Ali Alsuwaidi

Board Member, Arab Asset, Facility and Maintenance Management Council (OMAINTEC), Vice President, MEFMA, United Arab Emirates

Buildings and Facilities Management Digital Asset Management

Dr. Abdelkarim Rezk

General Manager Operation & Maintenance Sector, AlMajal Alarabi Group Company, Saudi Arabia

Artificial Intelligence and Machine Learning: The Future of Concrete Technology and Maintenance

Eng. Rami Alsodi

Senior Researcher, Department of Public Works, United Arab Emirates

Risk Management, Asset Digitization & Operational Excellence in Organization & Companies

Eng. Azhar Alqaissi

Consultant Engineer, Visiting Professor at Several Colleges and Institutes in Engineering Fields, Oman

Utilization of Artificial Intelligence in Monitoring Key Performance Indicators for Facility Management Performance

Eng. Mohamed Siddig

Facility Manager, Alrasikhat Real-estate Investment Company, Saudi Arabia

Session 02: Electrical Track: Grid Modernization and Sustainability

Hall B

Chairman:

Eng. Essam Alwafi

Head of GCC Lab Consultation, GCC Lab Saudi Arabia

Optimization and Performance Evaluation of a Hybrid Solar Power System for University Campuses: A Case Study with Environmental and Economic Impacts

Eng. Mohammed Al-Haj

Facility Engineer, Sulaiman Alrajhi University Saudi Arabia

Frequency Regulation Coordinated Framework: Hybrid Battery Energy Storage System and Supercapacitor

Eng. Salem Alshahrani

Lead Electrical Engineer, KEMYA, Saudi Arabia

Solar Panel Optimization Based on Graphene-Silicon-Droplet Integration

Dr. Ahmed Kabeel

Lecturer, Electronics and Communication Dept Delta University, Egypt

Superconducting Magnetic Energy Storage (SMES) Energy Applications

Eng. Nehal Alyamani

Renewable Energy Engineer, Member of IEEE-WSA, Affiliated Researcher, Effat University Saudi Arabia



Coffee Break

11:25 – 11:35

Day 02: Monday 27 January 2025

2 PARALLEL SESSIONS

11:35 - 12:35

Session 03: The Role of IoT in Smart Maintenance Practices

Hall A

Chairman:

Dr. Ayman Alwaleedi

Board Member, Arab Asset, Facility and
Maintenance Management Council (OMAINTEC),
Executive Director, Rua Almadinah, PIF, Saudi Arabia

The Technological System of the Internet of Things (IoT) and Its Modern Applications in Maintenance Management and Smart Fire Prevention

Prof. Mohamed Fathy Aref

Chair of the Smart Cities Code Committee,
Housing and Building National Research Center,
Egypt

Automating Subsurface Utilities Detection and Visualization using Deep Learning and Augmented Reality

Prof. Mohamed Marzouk

Professor, Cairo University, Egypt

Assessing the Impact of Digital Initiatives on Operational Excellence Using Key Performance Indicators (KPIs) and AI-Based Analytics

Eng. Yazeed Alhaqbani

Electric Engineer, Prince Sattam Bin Abdulaziz
University, Saudi Arabia

Impact of Tailored Robots on Construction Engineering Industry & Facility Management

Dr. Mostafa El Hawary

VP-Technology, NAMAA Consult, Saudi Arabia

Session 03: Electrical Track: Smart Solutions & Advance Monitoring

Hall B

Chairman:

Dr. Mohammed Khouj

Dean of the Faculty of Engineering, University
of Business and Technology, Saudi Arabia

Innovation in Energy Fields with the TRIZ Method: Applications in Key Sectors for the Middle East

Eng. Marco Tatti

Ttech Srl, Academia sas, Triz Consulting, Italy

Digital Meters Calibration Monitoring Solution (Automation of Preventive Maintenance Work Orders & Escalation)

Eng. Abdulrahman Alqahtani

Head of Power Plants Works Quality Section,
Central Sector, Saudi Electricity Company
Saudi Arabia

Standardization of the Signal List and SCL Engineering for IEC 61850 Based Substation Projects: Challenges, Solutions and Future Directions

Arulraj Irudayasamy

Regional Application Specialist for Power Utility
OMICRON Electronics Middle East, Bahrain

Smart Meters' Cyber Security Risks and How to Overcome Them

Hind AlQasem

Senior Cybersecurity Analyst, Saudi Electricity
Company, Saudi Arabia

 Lunch

12:35 – 13:15

Day 02: Monday 27 January 2025



IMA COINCIDE EVENT

International Maintenance Association Guideline of Digitalization of Assets, Facilities, and Maintenance Management

Re-Shaping the Future of Maintenance

HALL A
13:15 – 14:45

IMA is presenting its latest research study, "Guideline to Digitalization of Assets, Facilities, and Maintenance Management," conducted by leading global experts providing a strategic framework for organizations to navigate their digital transformation journeys.

Additionally, IMA is conducting a survey to gather insights on how digitalization impacts various sectors, focusing on the challenges faced, technologies implemented, and overall maturity levels in maintenance management.

Break

14:45 – 15:00

Day 02: Monday 27 January 2025

2 PARALLEL SESSIONS WITH WORKSHOP 10

15:00 - 16:00

Session 04: Future Trends in Sustainable Transportation Infrastructure

Hall A

Chairman:

Eng. Hazim Abdulwahid

Vice President, Saudi Society of Civil Engineering
Saudi Arabia

Developing A BIM Based Model for Road Construction & Maintenance in Saudi Arabia

Prof. Altayeb Qasem

Professor, Imam Abdulrahman Bin Faisal University
(IAU), Saudi Arabia

Crisis Management and Business Continuity: How New Technologies and Innovations are affecting the Transportation Sector

Eng. Simone Bernasconi

Founder & CEO, Avalue, Switzerland

Prospectives on Utilizing Sustainable Smart Maintenance in Infrastructure Projects

Prof. Moustafa Kassab

Professor, University of Waterloo, Canada

Effect of Using Geocell in Paved, Unpaved Roads on Sustainability, Technology for Digitizing Roads, and Infrastructure

Eng. Ashraf Sabry

Consultant Economist, LSF, Egypt

Session 05: Innovative Strategies for Water Systems Management

Hall B

Chairman:

Prof. Mohammed H. Albeirutty

Water Management, Former Professor
of Mechanical Engineering, Center of
Excellence in Desalination Technology
King Abdulaziz University, Saudi Arabia

Comprehensive Asset Condition Assessment Framework for Various Equipment Types in Desalination Plants

Eng. Suhail Kattan

Utilities Plants & Distribution Systems
Manager, King Abdullah University of Science
and Technology (KAUST), Saudi Arabia

Evaluation of Pipe Alternatives for Maintenance and Replacement in the Great Man-Made River Project-Libya

Eng. Ali El-turki

Lecturer, Civil Engineering Department
Benghazi University, Libya

Integration of AI Solutions in Desalination Operation Optimization

Eng. Ahmed Alghamdi

Green and Renewable Energy Group Leader
Saudi Water Authority, Saudi Arabia

Data Integration of Plant Equipment's and Spare Parts and Impact of that on the Cost Computing in the Seawater Desalination Sector

Eng. Khalid Al-habib

Chief Strategy & Development Officer, Water
Transmission Co., Saudi Arabia

Applications of Artificial Intelligence and Early Warning Systems in the Water Sector

Eng. Walaa Elsrogy

General Manager of AI and Control Department,
Greater Cairo Water Company (GCWC), Egypt

10th Workshop (Room 1)

Enhancing Infrastructure Asset Management Through Stakeholder Dynamics and Collaboration

Eng. E. Kingkof Kofi Opoku-Ohemeng

Asset Management Leader (Senior Manager), Royal Commission of Yanbu & Jubail, Saudi Arabia



Day 03
28 January 2025

Day 03: Tuesday 28 January 2025

Registration

07:00 – 09:00

2 PARALLEL SESSIONS

09:00 – 10:15

Hall A

Keynote Speaker: 09:00 – 09:15

Maintenance and Asset Management: Evolution, Big Data Integration, Digital Transformation and Future Challenges in the AECO Sector

Dr. Álvaro Vale e Azevedo

Head of Buildings Department, LneC - National Laboratory for Civil Engineering, Portugal

Session 06: Strategic Asset Planning and Performance Optimization

Chairman:

Eng. Daniel Pfammatter

Chairman, Easy Energy Companies & Consulting SA, Switzerland

Cost Optimal Asset Replacement Plan Case Study

Eng. Ondrej Stejskal

Senior Project Manager, Logio s.r.o., Czech

Generation of Solutions Catalog for Early-Stage Asset Lifecycle Decision Making

Prof. Adolfo Crespo Marque

Professor, Universidad De Sevilla, Spain

Sustaining Crude Stabilizer Performance & Optimize Maintenance Frequency by Leveraging Digital Simulation

Eng. Majed Aljeshi

Senior Process Engineer, Saudi Aramco Saudi Arabia

Implementing ISO 41001: Transitioning from Operations and Maintenance Contracts to Total Facility Management Performance-Based Contracts in KSA

Eng. Shukri Habib

Managing Director, Qualiserv, Qatar

Hall B

Keynote Speaker: 09:00 – 09:15

FAM Industry Future Needs in Education and Training

Prof. Zaher Kyle

President of the British Academy for eLearning, United Kingdom

Session 07: Role of Training and Education in Empowering Asset and Facility Management

Chairman:

Dr. Isam Kabbani

Owner & CEO, Al Kabbani Engineering Consulting Office, Saudi Arabia

Towards a Training Program for Developing Leadership Skills for Facility Managers at Sonatrach, Algeria

Prof. Mansour Benzahi

Professor, University of Ouargl, Algeria

The Role of AI-Powered Training in Enhancing Compliance with ISO 55001 Asset Management Standards

Eng. Hamid Yagoub

Senior Consultant ISO Standard and Project Management, Engineering Science Institute for Training ESI, Saudi Arabia

The Evolution of Continued Education with the Future Role of Artificial Intelligence: A Case Study of the University of Sharjah

Dr. Asmaa Nusairi

Director of Continuous Education Center, Assistant Professor in Management, University of Sharjah, United Arab Emirates

Key Performance Indicators (KPIs) and Digital Maintenance (CMMS) for Facility Management

Prof. Hossam Elborombaly

X-head Of Architecture Department Ain Shams University, Egypt



Coffee Break

10:15 – 10:25

Day 03: Tuesday 28 January 2025

WORKSHOP

10:25 - 12:25

11th Workshop (Room 1)

Optimizing Asset Performance: The Strategic Integration of Smart Power Transformers in the Saudi Arabia Electricity Network

Eng. Ayyoub Hourani

Design & Engineering Manager, Saudi Power Transformer Company (SPTC), Saudi Arabia

Eng. Mahmoud Elsayed

Control and Protection Design Lead, Saudi Power Transformer Company (SPTC), Saudi Arabia

Day 03: Tuesday 28 January 2025

2 PARALLEL SESSIONS

10:25 - 11:25

Session 08: Innovative Asset and Facility Solutions for Enhanced Resilience

Hall A

Chairman:

Prof. Adolfo Crespo Marquez

Professor, Universidad De Sevilla, Spain

An Innovative Resilience Assessing for Critical Infrastructures Using the Lean Methodology

Prof. Claudio Rolandi

Principal, Academia s.a.s., Italy

Transforming Telecom Infrastructure Operations: A Vendor-Agnostic, Multi- Telecom Integrated OSS/NMS Platform for Enhanced MNO/Towerco Passive Network Operations

Eng. Hussameddin Alzaatreh

Operations Director, ACES, Saudi Arabia

ESG Metrics and Risk Factors in Asset and Facility Management Adapting to Mandatory Reporting Policies

Eng. Mohammad Abu Afifeh

CEO, Conceliare, Jordan

The Challenge of Digitalization of the Water Sector

Dr. Mohsen Alamir Alkady

Chairman, Misr Foundation for Science
and Technology Research, Egypt

Session 09: Cybersecurity and Sustainable Innovation in Smart Maintenance

Hall B

Chairman:

Prof. Mufid Samarai

Board Member, Arab Asset, Facility
and Maintenance Management
Council (OMAINTEC), Senior Advisor,
Sahara Group, United Arab Emirates

Zero Trust Architecture Application in Maintenance Operations: A Cybersecurity Perspective

Tamer Hellah

Director, Happy Life Limited, United Kingdom

Building a Smart OS for Facilities Management: How can Facility Managers leverage Data Engineering, 5G Network, Machine Learning Algorithms and LLMs to create a Futuristic Management Operating System for Facilities

Eng. Ahmed Rezik

Baseband Software Engineer
Rohde & Schwarz, TUM, Germany

Revolutionizing Industrial Performance: The Disruptive Power of Sustainable Operability in the Age of AI and Net-Zero Carbon Emission

Samira Ben Ali

President, Maramm, Morocco

The Impact of Digital Twin

Eng. Sulaiman Al Ismaili

MSc Engineering Management, Oman



Coffee Break

11:25 – 11:35

Day 03: Tuesday 28 January 2025

2 PARALLEL SESSIONS

11:35 – 12:45

Session 10: Advancements in Digital Solutions for Predictive Maintenance

Hall A

Chairman:

Dr. Tomáš Hladík

Principal Consultant, Logio s.r.o., Czech

Data Analytics of Machines through Predictive Maintenance Strategies and Their Applications using Programmable Control Systems and the Internet of Things

Eng. Waleed Nazhat

Chief Engineer, Baba Gurgur

Association of Turkmen Engineers, Iraq

Architectural Digital Twins: Enhancing Building Lifecycle Management through Predictive Maintenance and Restoration

Dr. Nader Gharib

Head of Architectural Engineering

and Environmental Design, College of

Engineering and Technology, AASTMT, Egypt

Digital Twin Emerging Technology: Empowering Predictive Maintenance for Enhanced Equipment Reliability and Operational Efficiency

Eng. Mohammed Al-Haj

Facility Engineer, Sulaiman Alrajhi University

Saudi Arabia

Digital Infrastructure Mapping

Eng. Suleiman Barada

Senior Member, Board of Advisors

Inframappa, Kingdom of Saudi Arabia

Session 11: Exploring New Horizons in Maintenance and Design

Hall B

Chairman:

Dr. Hamza Ghulman

Academic Consultant, University of

Business and Technology UBT, Saudi Arabia

Saudi Arabia's Industrial Future with 3D Printing and Digital Solutions

Eng. Ehab Bassam

Business Development Manager, Lasoman

Machines Empowering, Saudi Arabia

Advancing Prosthetics: Personalization with 3D Printing, AI, and the Critical Role of Maintenance

Eng. Esraa Rashad

Researcher, Mansoura University, Egypt

Robotics and AI: Shaping the Future of Large-Scale Maintenance and Construction Operations (Painting as a Case Study)

Eng. Hamza Ibrahim

Lead Technical Sales, Neura Robotics, Germany

Optimal Automated Designing Process for Annual Planning and Workload Distribution of Work Orders

Dr. Tarek Nasab

Associate Professor, Lebanese International

University, Lebanon

Break

12:45 – 13:15

Day 03: Tuesday 28 January 2025

Panel Discussion:

Regional Experiences in Asset, Facility and Maintenance Management: Enhancing Maturity Levels in Asset and Facility Management **HALL A**
13:15 – 14:15

Moderator:

Eng. Khaleid Aluneizi

CEO, MEST, Facilities and Maintenance Management Expert; Saudi Arabia

The Experience of the Ministry of Education in Asset and Facility Management

Eng. Mohsen Aljamaan

Professional Civil Engineer, Ministry of Education, Saudi Arabia

Smart Sustainable Buildings and Their Role in Reducing Carbon Emissions

Eng. Mariam Al Ali

Head of The Federal Buildings Management and Control Section, Federal Buildings Assets Department, Ministry of Energy & Infrastructure, United Arab Emirates

Tabuk University's Experience in Digital Applications for Asset and Facility Systems According to The EXPRO Methodology

Eng. Majed Al-Towiher

Director General of Engineering Affairs ,Tabuk University, Saudi Arabia

Transition

14:15 – 14:20

General Assembly Meeting of the Arab Asset, Facility and Maintenance Management Council

14:20 – 15:00

Closing Session

15:00 – 15:30

 **Lunch**

15:30