The International Scientific Conference on Digital Transformation 2026

22–24 November 2026 | Military Academy, Rajma, Libya

Day 1 | Sunday 22 November 2026

Master of Ceremonies: Ahmed Elrayes, Managing Director and Principal Advisor, AY&R Management Consultant

TIME	PROGRAM
09:00-11:00	**Registration, coffee, and networking**
11:00-11:10	**Recitation from the Holy Quran and National Anthem**
11:10-11:20	**Welcome by the Master of Ceremonies** | Ahmed Elrayes
11:20-11:25	**Welcome address** | Eng. Farag Khalifa Saleh El-Rabhi, Chair of the Preparation Committee, ISCDT 2026
11:25-11:35	**Welcome address** | Professor Abdullah El-Kwafi, Chair of the Technical Program Committee, ISCDT 2026 Research Affiliate and Professor of Computing and AI, Environmental and Energy Management Institute, School of Engineering and Applied Sciences, The George Washington University, USA
11:35-11:40	**Conference paper statistics** | Dr. Sunder Ramachandran Vice Chair of the Technical Program Committee, ISCDT 2026 Associate Professor of Entrepreneurship & Innovation, The International Academy of AI & Cybersecurity, USA[1]
11:45-11:50	**Welcome address |** Dr Attef Al-Khefifi, Chairman of the Board Libyan British University
11:55-12:00	**Welcome address |** Dr Ramadan Al-Majrab, President of the Libyan British University
12:05-12:10	**Welcome address |** Major General Awn Ibrahim Al-Farjani, Honorary President of the Conference, President of the Military Academy for Security and Strategic Sciences
12:15-12:20	**Welcome address |** Dr Abdalla Abdaljalil, Director of the National Centre for Quality Assurance and Accreditation of Educational and Training Institutions
12:25-12:30	**Welcome address** | Dr. Medhat Al-Ghaddamsi, Executive Director, Roya Foundation for Digital Economic Development
12:35-12:40	**Welcome address** | Mr Al-Mahdi Shuaib Al-Saeiti, Minister of Higher Education and Scientific Research in the Libyan Government
12:45-12:50	**Welcome address** | Dr Osama Saad Hammad, Prime Minister of the Libyan Government
12:55-01:00	**Keynote address** | Dr. Milad Sebaali, Leader in Digital Transformation and AI Founder and CEO, Global Learning, Dubai, UAE **Strategies and Initiatives for Building AI Leaders in Libya**
01:05-01:15	**Featured lecture** | Ahmed Elrayes, Managing Director and Principal Advisor, AY&R Management Consultant **Beyond AI Training: Developing a Workforce That Can Think, Adapt, And Innovate**

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Day 1 | Sunday 22 November 2026 | Track sessions

Track 1 | Digital Infrastructure and Libya's Digital Future

10 oral papers | 20 minutes to present and 5–10 minutes for questions. Groups A and B run in parallel.

TIME	PROGRAM
	GROUP A | HALL A **Track Chair: Prof. Omer Elzoroug, Phd Leeds University UK, Staff member at Omar Al Mukhtar University**
13:15-14:00	**Lunch break**
14:00-14:30	**Designing Libya's Digital Sovereignty Infrastructure: An Integrated Architecture** Seraj hamed Basheer Aldrissi
14:30-15:00	**Deterministic Digital Immunity for Software-Defined 6G Networks via Control Barrier Functions and Lyapunov-Based Admission** Al-Hussein Ali Abdul Salam Saeed Al-Sahati
15:00-15:30	**Digital Transformation of Pipeline Integrity Monitoring Through a Testable Vibration–PLC Architecture** Mostafa Ibraheem Ahmed Aoun
15:30-15:45	**Afternoon coffee break**
15:45-16:15	**Learning Digital Twins by Experimentation at Zero Cost: An Open-Source Framework Illustrated by a Solar-Microgrid Case Study** Abdulnasir Altubuly
16:15-16:45	**التقنيات الذكية لتعزيز استدامة المدن** Omer Elzaroug
	GROUP B | HALL B **Track Chair: Yasmina M. Bashon** Software Engineering Department, IT Faculty Libyan British University, Benghazi, Libya
13:00-14:00	**Lunch break**
14:00-14:30	**A Trusted Digital Transformation Governance Framework for North Africa: Integrating Data, Cybersecurity, AI Governance and Digital Sovereignty** Mohamed Altaher Ben Naseir
14:30-15:00	**مدى استخدام تطبيقات الذكاء الاصطناعي في الدراسات الجغرافية بالجامعات الليبية: دراسة تحليلية** Hanan Mohammed
15:00-15:30	**A Classification of Earthquakuake Events Using Machine Learning** Professor Ruwaida Masoud Muhammad Al-Obaidi and Dr. Kenz Bouzid Al-Hassouni
15:30-15:45	**Afternoon coffee break**
15:45-16:15	**اتجاهات المرشدين الزراعيين نحو استخدام تقنيات الطائرات المسيرة (الدرونز) في الرصد المبكر للآفات النباتية في منطقة البيضاء بالجبل الأخضر** Professor Abdulkarim Saeed
16:15-16:45	**Performance and Resilience of Software-Based Load Balancing for Digital Service Infrastructure** Dr. Hend Abdelgader Eissa
16:45-17:00	**Day 1 wrap-up** | Ahmed Elrayes, Managing Director and Principal Advisor, AY&R Management Consultant

Day 2 | Monday 23 November 2026

Master of Ceremonies: Dr. Sunder Ramachandran
Vice Chair of the Technical Program Committee, ISCDT 2026
Associate Professor of Entrepreneurship & Innovation, The International Academy of AI & Cybersecurity, USA

TIME	PROGRAM
08:00-09:00	**Arrival and networking** | Coffee and tea
09:00-09:05	**Welcome and introduction** | Dr. Sunder Ramachandran
09:05-09:30	**Keynote address** | Professor Piero Formica (online) Senior Research Fellow, Innovation Value Institute, Maynooth University Founder at International Academy, Greater Bologna, Italy **The Agentic Enterprise in Today's Era of Uncertainty and Imperfection**

Track 2 | Fintech, Digital Economy, and Consumer Trust

13 oral papers | 20 minutes to present and 5–10 minutes for questions. Groups A and B run in parallel.

TIME	PROGRAM
	GROUP A | HALL A **Track Chair: TBA**
09:30-10:00	**Integrating Sustainability and Digital Innovation: The Arab World's Pathway to a Sustainable Digital Transformation** Professor Abdullah El-Kwafi
10:00-10:30	**Digital Twin-Enabled Industrial Transformation: A Simulation-Based Integrated Framework for Predictive Maintenance, Quality Management, and Operational Optimization** Dr. Rania Ahmed Al-Rifai
10:30-11:00	**تصميم نموذج نضج رقابي تكاملي لتقييم نضج أنظمة الرقابة الداخلية في القطاع المصرفي الليبي في ظل التحول الرقمي: منظور مؤسسي قائم على تكامل إطاري COSO و COBIT ومرجعيات مصرف ليبيا المركزي.** Fatima Mohammed Saad Masoud
11:00-11:30	**Morning coffee break**
11:30-12:00	**مراجعة تقنية المعلومات والتدقيق الرقمي المتقدم ودورهما في تعزيز الرقابة وإدارة المخاطر بالمصارف التجارية الليبية** Ms. Samah Faraj Mahmoud Al-Qadari
12:00-12:30	**مدى مساهمة التحول الرقمي في تعزيز حماية البيانات المالية والحد من المخاطر التي تواجهها المصارف (دراسة ميدانية على عينة من المصارف التجارية بالمنطقة الشرقية)** Mr. Hussein Attia Al-Sanousi and Mr. Wanees Anwar Fayez
12:30-13:00	**تحديات تطبيق التحول الرقمي في المحاسبة الحكومية: دراسة ميدانية في إدارة الميزانية بوزارة المالية بحكومة الوحدة الوطنية** Wafaa Mohamed Karim Al-Adali
13:00-14:00	**Lunch break**
	GROUP B | HALL B **Track Chair: Dr. Islam Tharwat Abdel Hali** Associate Professor, School of Information Technology and Computer Science, Nile University, Egypt
09:30-10:00	**دور الابتكار الرقمي في تنمية قطاع الصناعة التحويلية في ليبيا -دراسة قياسية للفترة 1997-2020** Salwa Juma
10:00-10:30	**واقع جاهزية شركة الخدمات العامة للتحول الرقمي: دراسة ميدانية لآراء العاملين بمدينة طبرق** Areej Alzobair Khaled Fadil
10:30-11:00	**Leveraging Artificial Intelligence and Big Data Analytics to Support Sustainable Development in the Libyan Health Sector: A Context-Sensitive Framework for Decision-Making** Halima Awnallah Saeed Ali
11:00-11:30	**Morning coffee break**
11:30-12:00	**EEG-Based MCI Detection: A Critical Comparative Review of Machine Learning Pipelines and Priorities for Clinical Translation** Zahow Muftah Kamees
12:00-12:30	**توظيف تطبيقات الذكاء الاصطناعي في تصميم الأنظمة الغذائية العلاجية الشخصية لمرضى غسيل الكلى: دراسة ميدانية لبناء نموذج تطبيقي يعزز جودة خدمات التغذية العلاجية ويدعم اتخاذ القرار الصحي** Hajar Masoud Omran
12:30-13:00	**A Blockchain-Based Framework for Decentralized Verification of Academic Credentials and Tamper-Evident Proof-of-Existence for Local Scholarly Publications** Asma Saleh
13:00-14:00	**Lunch break**
14:00-14:30	**تحديات التحول نحو الوحدات الصحية الذكية في ليبيا: دراسة ميدانية من وجهة نظر العاملين بوحدات الرعاية الصحية الأولية في بلدية حي الأندلس** Layla Ibrahim Khalil Al-Shabagh and Ayman Marai Al-Talhi (presenter)
14:30-14:40	**Day 2 wrap-up** | Dr. Sunder Ramachandran

Day 3 | Tuesday 24 November 2026

Master of Ceremonies: Dr. Sunder Ramachandran
Vice Chair of the Technical Program Committee, ISCDT 2026
Associate Professor of Entrepreneurship & Innovation, The International Academy of AI & Cybersecurity, USA

TIME	PROGRAM
08:00-09:00	**Arrival and networking** | Coffee and tea
09:00-09:05	**Welcome and introduction** | Dr. Sunder Ramachandran
09:05-09:30	**Keynote address (online)** | **Hassan Youssef Aly, PhD** Professor of Economics, Nile University, Egypt Professor Emeritus, The Ohio State University, USA **Beyond the Bank Account: Lessons from MENA for Libya's Digital Financial Transformation**

Track 3 | AI Governance, Talent, and Higher Education

13 oral papers | 20 minutes to present and 5–10 minutes for questions. Groups A and B run in parallel.

TIME	PROGRAM
	GROUP A | HALL A **Track Chair: Professor Ramadan Elmigrab** President, Libyan British University
09:30-10:00	**AI-Based Intrusion Detection and Dynamic Trust Management for Secure 5G Communication Networks** Ahmed Abdel Moneim Fathi Al-Shalmani
10:00-10:30	**Generative Synergistic Intelligence (GSI) and Prompt Augmented Learning (PAL)** Professor Emeritus Wajdi Mohamed Ratemi
10:30-11:00	**تصور مقترح لتطوير الأستاذ الجامعي في العصر الرقمي بالجامعات الليبية: متطلبات التحول وتحديات التطبيق (كليات التربية نموذجا)** Rabia Ali Al-Mukhtar Al-Dawki
11:00-11:30	**Morning coffee break**
11:30-12:00	**Beyond the Data Wall: Abductive Interactome Inference and Federated Learning for Chemotherapy Response Prediction in Breast Cancer** Elizabeth Amelia
12:00-12:30	**Beyond the Skills Gap: Building Talent Infrastructure for the Global AI Economy in Emerging Markets** Tofunmi Adeyemi
12:30-13:00	**توظيف تطبيقات الذكاء الاصطناعي في تطوير استراتيجيات التدريس والتقويم: دراسة ميدانية لبناء نموذج ذكي متكامل في ضوء تصورات معلمي مؤسسات التعليم بمدينة بني وليد** Amaal Alseid
13:00-14:00	**Lunch break**
14:00-14:30	**Fine-Tuning a Lightweight Whisper Model for Fully Diacritized Quranic Recitation Transcription** Manna Faraj Manna, Zahow Muftah Khamees
	GROUP B | HALL B **Track Chair: Dr. Faraj Elabani** Libyan British University
09:30-10:00	**LUGHNOR-Ω: A Governance-Centric Reference Architecture for Trusted AI Decision Support in Sovereign Institutions** Tamer Mohamed Fathy Ibrahim Ragab (online)
10:00-10:30	**SENTINEL-MAS: A Knowledge-Grounded Multi-Agent Command and Control Architecture for National Security with Human-in-the-Loop Decision Authority** Engineer Omar Ali Al-Bashir Al-Maqouri
10:30-11:00	**أثر التحول الرقمي في تعزيز ممارسات إدارة المعرفة بالجامعات الليبية العامة.** Sorour Bashir Ali Al-Tawil
11:00-11:30	**Morning coffee break**
11:30-12:00	**The Risks of Artificial Intelligence: Bad Actors, Rogue AI, and Hybrid Threats** Dr. Sunder Ramachandran
12:00-12:30	**أسس الأمن الإنساني في عصر التحول الرقمي: نموذج تطبيقي لحماية الناشئة في بلدية بنغازي - دليل إعمار إنسان -** Faraj Hamad Ali Abdul Salam
12:30-13:00	**اتجاهات طلبة الجامعة نحو توظيف الذكاء الاصطناعي في تقديم الدعم النفسي والإرشاد النفسي الرقمي: دراسة وصفية** Mabrouka Mohammed Salem Al-Darouli
13:00-14:00	**Lunch break**
14:30-14:55	**Conference closing and presentation of author certificates** Professor Abdullah El-Kwafi and Eng. Farag Khalifa Saleh El-Rabhi