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Title of the Conference

The Eighth International Scientific Conference of the Arab Statisticians Union
Under the patronage of HE the minister of Higher Education and Scientific Research
- KRG

Under the slogan:

**Synergy between Artificial Intelligence and Effective Statistics to Achieve the
United Nations Sustainable Development Goals**

DATES & VENUE OF THE CONFERENCE:

16-17 April 2025

16 – April Canyon Hotel

and

17 April TIU

NAMES & AFFILIATIONS OF THE SPEAKERS

- Prof. Dr. Dhiya Al-Jumeily (Liverpool John Moores University, UK)
- Prof. Dr. Mohammed Ateer (Middle East University, Jordan)
- Prof. Dr. Qasim Al-Obaidi (Tishk International University, Iraq)
- Prof. Dr. Khattab Al-Hiti (University of Anbar, Iraq)

NAMES OF THE ORGANIZING AND SPONSORING BODIES

Iraqi Private Banks League

Sardar Co.

Union of Arab Statisticians

THE OBJECTIVES OF THE CONFERENCE

- To foster regional and international collaboration in the field of statistical science and artificial intelligence.
- To discuss innovative approaches that integrate AI with statistical methodologies.
- To showcase research findings related to the application of AI and statistics in achieving the UN's SDGs.
- To enhance the visibility of Arab statisticians and encourage capacity-building among young researchers.

MAIN RESULTS/OUTCOMES OF THE CONFERENCE

1. **Integrated Statistical-AI Frameworks:**
The fusion of AI and statistical models significantly improves the quality, speed, and scope of data-driven decision-making. Governments and institutions are encouraged to invest in hybrid systems that combine both disciplines.
2. **Strengthening Statistical Education:**
There is an urgent need to update curricula in Arab universities to include modern AI techniques, machine learning, and data ethics alongside classical statistics.

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3. Policy Development:

National and regional policymakers should establish data governance frameworks that ensure responsible AI deployment, data privacy, and transparent statistical practices.

4. International Collaboration:

The conference emphasized the importance of joint research initiatives, exchange programs, and international projects for capacity building and shared knowledge production.

5. SDG-Oriented Research:

Statistical research must be aligned with sustainable development objectives, especially in areas like health, education, environment, and poverty reduction, using AI to monitor and forecast progress.

6. Data Accessibility and Open Science:

Encouraging open-access data repositories and cross-border data sharing among Arab nations was proposed to support research, planning, and innovation.

THE RECOMMENDATIONS OF THE CONFERENCE (SHOULD BE SENT TO MHE/ GENERAL DIRECTORATE OF RESEARCH AND DEVELOPMENT)

- Promote open data accessibility and encourage innovation in data collection tools.
- Support gender-sensitive and inclusive statistical practices.
- Establish a permanent regional task force to monitor progress in achieving Sustainable Development Goals using artificial intelligence and statistics.
- Invest in youth and early-career researchers through dedicated workshops and mentorship programs.

PARTICIPATION STATISTICS

125 persons from different Arab countries

ATTENDANCE STATISTICS (FROM TIU AND FROM OTHER INSTITUTIONS)

45 from TIU, the rest from different Arab countries

MEDIA COVERAGE

ZAGROS TV

Total number of Conference submitted manuscripts	84 Articles, 42 accepted
Main countries the manuscripts submitted from	Iraq, Jordan, Palestine, Egypt, Sudan, Yemen, Algeria, and Oman
The main tracks of the Conference	First Theme: The Role of Artificial Intelligence in Achieving the 2030 Sustainable Development Goals

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	1. Artificial intelligence enhances digital transformation to achieve greater well-being and build a digital society. 2. Artificial intelligence contributes to economic and social progress with consideration for the environmental aspect. 3. Artificial intelligence improves education and healthcare services. 4. Artificial intelligence technology creates job opportunities and eradicates poverty. 5. Artificial intelligence technology supports creativity, initiative, and promotes good governance. 6. Artificial intelligence technology is essential for enhancing development and innovation. 7. Artificial intelligence technology contributes to regulating future statistical predictions and avoiding crises. 8. The use of effective tools in data analysis allows for the discovery of different patterns and making accurate predictions. Second Theme: The Role of Effective Statistics in Achieving the 2030 Sustainable Development Goals 1. The impact of statistics in understanding the fundamental pillars of sustainable development. 2. The role of statistics in achieving the goals, objectives, and indicators of sustainable development. 3. Employing creativity and innovation in supporting the implementation of sustainable development goals. 4. Training, capacity building, and knowledge transfer in achieving sustainable development goals. 5. The role of effective statistics in monitoring and implementing sustainable development goals.
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	- The role of Arab statistical institutions in providing data and indicators for sustainable development. - The role of statistics in establishing advanced foundations for the advancement of education. - The use of statistical analysis in making accurate decisions and discovering new business horizons. Third Theme: Digital Technology for Achieving Sustainable Development Goals - The role of governments in the digital age and how they interact with society and the private sector. - How digital-age governments manage public affairs, meet needs, and provide services. - The digital government's commitment to accelerating the achievement of sustainable development goals. - The use of good governance to accelerate the achievement of sustainable development goals. - The positive and negative impacts of advanced technology on sustainable development in its economic, social, and environmental dimensions. - Taking measures to achieve comprehensive development, justice, and equality in order to achieve sustainable development. - Using digital technology to build communities that can withstand crises. - Using modern statistical models to understand the relationships between variables and predict future events. Fourth Theme: The Role of Technology-Supported Statistics in Securing Future Community Requirements - The use of modern technology in generating data and analyses that enhance meeting community requirements.
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	2. Technology support for data collection processes and decision-making that enhances transparency and accountability. 3. Focusing on protecting planet Earth to meet the needs of current and future generations. 4. Technological development supports achieving equality, peace, and conflict mitigation, and building prosperous communities. 5. Using modern technology to improve the accuracy of statistical data for a better understanding of future community needs. 6. Statistical techniques and the use of modern technology help enhance the efficiency of data collection and analysis. 7. The effective role of statistical institutions in supporting and developing healthcare towards a healthy society. 8. The use of non-parametric statistical methods in data analysis and the discovery of patterns and relationships Fifth Theme: The Potential of Artificial Intelligence and Statistics in Addressing Complex Global Challenges and Their Role in Achieving Sustainable Development Goals 1. Integrating artificial intelligence and statistical models to improve statistical models for climate change predictions. 2. How artificial intelligence and statistics are used in analyzing the spread of diseases and managing them. 3. Exploring the use of artificial intelligence and statistical tools in improving outcomes for sustainable agriculture. 4. The role of artificial intelligence in enhancing renewable energy sources through statistical analysis. 5. How artificial intelligence analytics, enhanced by statistics, can develop learning and improve educational outcomes.
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		6. Exploring the impact of artificial intelligence models supported by statistics on economic forecasting and decision-making. 7. The role of artificial intelligence in collaboration with statistical methods in efficiently managing water resources. 8. How artificial intelligence analysis supported by statistics of big data can reveal insights and promote gender equality.
	Track 1	No. of submitted papers/abstracts: 17 No. of accepted papers/ abstracts: 10
	Track 2	No. of submitted papers/abstracts: 18 No. of accepted papers/ abstracts: 10
	Track 3	No. of submitted papers/abstracts: 17 No. of accepted papers/ abstracts: 11
	Track 4	No. of submitted papers/abstracts: 19 No. of accepted papers/ abstracts: 11
	Track 5	No. of submitted papers/abstracts: 13 No. of accepted papers/ abstracts: 0

Please attach the following documents as an appendix to the present report:

- 1) The conference agenda
- 2) Some conference photos
- 3) List of TIU staff attended the conference
- 4) List of Non-TIU staff attended the conference
- 5) all material evidence of media coverage
- 6) Abstract/Proceedings Book

Date
20 April 2025

Filled by
Wasfi Kahwachi