İSTANBUL GELİŞİM UNIVERSITY

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Istanbul Gelişim University
Istanbul, Türkiye

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İSTANBUL GELİŞİM UNIVERSITY

ruSMART 2026

19TH INTERNATIONAL CONFERENCE ON

Internet of Things and Smart Spaces

CONFERENCE PROGRAMME

23–25 NOVEMBER 2026 | ISTANBUL, TÜRKİYE



FACULTY OF ENGINEERING AND ARCHITECTURE
MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ

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ABET-accredited engineering programmes
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UNIVERSITY RANKINGS

QS EUROPE 2026
#441
IN EUROPE

QS EUROPE 2026
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IN EUROPE FOR CITATIONS PER PAPER

THE WORLD UNIVERSITY RANKINGS 2026
1001–1200
WORLDWIDE

Rankings: QS Europe 2026 and THE World University Rankings 2026.
Accreditation is program-specific.

IIBF | GELİŞİM UNIVERSITY | جامعة أبوظبي Abu Dhabi University | Springer | ELYSIAN LOOP TECH

ruSMART 2026

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Conference Programme

48 ACCEPTED PAPERS

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VENUE

Mehmet Akif Ersoy Konferans Salonu

Istanbul Gelisim University · Istanbul, Türkiye

Practical information

VENUES AND ROOMS

Mehmet Akif Ersoy Konferans Salonu	Opening ceremony, keynotes, closing ceremony, on-site sessions A1 and A2
Virtual Room 1	Online sessions B1, B3, B6 · keynotes 5 and 6 https://meet.google.com/rmz-sjnk-itc
Virtual Room 2	Online sessions B2, B4, B7 https://meet.google.com/aax-tkez-ddg
Virtual Room 3	Online sessions B5, B8 https://meet.google.com/rqs-dgjp-jiq
Foyer	Registration, tea and coffee breaks
Restaurant	Lunch service

GOOD TO KNOW

- All times are Istanbul time (UTC+3).
- Each paper presentation is 10 minutes including questions.
- On-site papers run in Track A, online papers in Track B.
- Meeting links for Virtual Rooms 1–3 are printed on this page; they are open to registered delegates.
- The programme is provisional; check the conference website for changes.

HOSTS AND PARTNERS

KNOWLEDGE PARTNER Indian Institute of Banking & Finance	HOST Istanbul Gelisim University	ACADEMIC PARTNER Abu Dhabi University	PUBLISHING PARTNER Springer	INDUSTRY PARTNER Elysian Loop Tech

ruSMART 2026 · 23–25 NOVEMBER 2026

Istanbul Gelisim University · Istanbul, Türkiye

The conference

ruSMART is the nineteenth in a series of international conferences devoted to the Internet of Things and the smart spaces that surround us. Over three days in Istanbul, researchers, engineers and industry practitioners meet to present new work on how connected systems sense, decide and act — and on the security, energy and data questions that follow once those systems are everywhere.

The 2026 programme brings together 48 accepted papers across ten parallel sessions, six keynote addresses and a closing panel discussion. Eleven papers are presented on site in the Mehmet Akif Ersoy Konferans Salonu; the remaining thirty-seven are presented online, so that colleagues who cannot travel can still take part.

PROGRAMME AT A GLANCE

DAY 1	**Monday 23 November** 09:30 – 17:10	Opening ceremony, three on-site keynotes, two parallel blocks across four rooms
DAY 2	**Tuesday 24 November** 09:30 – 15:55	Keynote 4 on-site, keynotes 5 and 6 online, one parallel block, awards and closing
DAY 3	**Wednesday 25 November** 09:30 – 17:00	Panel discussion, followed by the optional Istanbul city tour

KEY FACTS

DATES	23 – 25 November 2026	FORMAT	On-site and online, in parallel
CITY	Istanbul, Türkiye (UTC+3)	PAPERS	48 accepted, 10-minute slots
HOST	Istanbul Gelisim University	KEYNOTES	Six, plus a closing panel

SESSION THEMES

Smart Grids, Storage and Renewable Energy Integration · AI for Health, Vision and Medical Imaging · Intrusion Detection, Malware and Network Security · Secure Systems, Cryptography and DevSecOps · LLM Security, Generative AI and Deepfakes · IoT, Sensing and Smart Environments · Wireless Systems, Device Engineering and Data-Driven Applications · Blockchain, Trust and Post-Quantum Security · Machine Learning Applications and Analytics · Energy Modelling, Bioscience and Emerging Applications

HOW TO USE THIS PROGRAMME

TRACK A · ON-SITE

Eleven papers in two sessions, both in the Mehmet Akif Ersoy Konferans Salonu: A1 on Day 1, A2 on Day 2.

TRACK B · ONLINE

Thirty-seven papers in eight sessions across Virtual Rooms 1–3, three sessions running at once.

TIMES

Each paper has a ten-minute slot, including questions. Start times are printed with every paper.

Six keynote speakers

Three addresses on site on Day 1, one on site and two online on Day 2.

KEYNOTE 1
10:30–11:15
Day 1
ON-SITE

Prof. Dr. Andrey Koucheryavy
Bonch-Bruevich Saint Petersburg State University of Telecommunications · Russia

"Mirror words and network avatars"

KEYNOTE 2
11:45–12:30
Day 1
ON-SITE

Prof. Dr. Montasir Qasymeh
Abu Dhabi University · United Arab Emirates

"Recent Advances in Quantum Technologies and Computing"

KEYNOTE 3
13:30–14:15
Day 1
ON-SITE

Prof. Dr. Shehzad Ashraf Chaudhry
Abu Dhabi University · United Arab Emirates

"BEYOND AI-DRIVEN CYBERSECURITY: Understanding Threats and Practical Defense Strategies"

KEYNOTE 4
10:00–10:45
Day 2
ON-SITE

Dr. Samer Sulaeman
Istanbul Gelisim University · Türkiye

"From Sensors to Secure Power: Managing Renewable Energy Uncertainty Through IoT"

KEYNOTE 5
11:15–12:00
Day 2
ONLINE

Prof. Dr. Neeraj Kumar
Thapar Institute of Engineering and Technology · India

"Agentic AI: From Intelligent Models to Autonomous Actions"

Join: https://meet.google.com/rmz-sjnk-itc

KEYNOTE 6
12:00–12:45
Day 2
ONLINE

Prof. Dr. Ali Kashif Bashir
Manchester Metropolitan University · United Kingdom

"Artificial Intelligence to achieve predictive analysis for Industry 4.0"

Join: https://meet.google.com/rmz-sjnk-itc

Session papers and presentation times

B7 ONLINE — Machine Learning Applications and Analytics
5 papers

Day 2 · 13:45–14:45 · Virtual Room 2 · Chair: Dr. Anwar Ghani

13:45 47 **Graph Edge Token Variational Autoencoder for Smart and Personalized POI Recommendation**
Lamia Berkani; Youcef Daoud; Mohamed El Hadi Korreh

13:55 112 **Digital Transformation and Employee Productivity in Indian Banks: A Comparative Analysis of Public and Private Sector Banks in the Era of FinTech, Intelligent Automation and Digital Infrastructure**
Kratika Shrivastava; Sachin Sharma; Neeraj Kumar; Naveen Chilamkurti

14:05 159 **Students' Acceptance of AI-Driven Holographic Learning: An Engagement-Centred Framework from Omani Higher Education**
Wasin Alkishri

14:15 19 **CEER: Cross-Corpus Speech Emotion Recognition: Evaluation on EmoDB, and Real-World Datasets**
Parth Bhatia; Sandeep Verma

14:25 37 **Machine Learning for Low-Cost Gas-Sensor Food Authentication: Benchmarking Eight Classifiers on Edible Oil Adulteration**
Montaser Ramadan; Mohammad Alkhedher

B8 ONLINE — Energy Modelling, Bioscience and Emerging Applications
5 papers

Day 2 · 13:45–14:45 · Virtual Room 3 · Chair: Dr. Mohamed Elhadad

13:45 26 **Performance Analysis of Air-Gap Variations in Series–Series Compensated Wireless Power Transfer for Smart Electric Vehicle Charging**
Omar Nuaimi; Khalid Yahya

13:55 120 **Maximizing Solar Panel Efficiency with Automated Inclination Angle Adjustment**
khalid yahya

14:05 2 **Auditing Registry-Schema Provenance Sensitivity in Cancer Survival Modeling: A Three-Cohort SEER Study**
Phuong Vo; Tran Duc Le; Huu Hoan Hoang; Van Dai Pham

14:15 133 **Designing Drug Molecules with a Diverse Variational Autoencoder**
Arun Bhadwal

14:25 139 **An IoT-Enabled Cloud-Based Machine Learning Framework for Intelligent Fertilizer Recommendation in Smart Agriculture**
Rajeev Kumar; Parul Gupta; Poonam Jaglan; Mukti Mukti

Session papers and presentation times

A2 ON-SITE — Wireless Systems, Device Engineering and Data-Driven Applications

5 papers

Day 2 · 13:45–14:45 · Mehmet Akif Ersoy Konferans Salonu · Chair: Dr. Jabar Mahmood

13:45	23	**From Simulation to Real-World Validation: Assessing the Experimental Maturity of DECT-2020 NR Research**	Ashuqullah Alizai; Mohammad Reza Mousavi; Daryoosh Mansory; Milad Goodarzi; Stephan Ludwig
13:55	44	**MLP-Based Dual-Condition Handover Decision in Ultra-Dense Small Cell HetNets**	Hamidullah Riaz
14:05	66	**Predicting Customer Satisfaction Scores with Robust-Scaled PARAFAC Tensor Decomposition**	Sangeeta Kumari
14:15	75	**Analytical Modeling of Fermi-Level-Dependent Nonlinear Transport and Harmonic Generation in Graphene/Si Schottky Diodes**	banafsheh Alizadeh Arashloo
14:25	136	**Federated Learning over Edge-Fog-Cloud with Exogenous-Feature Fog Training for Vehicular Traffic Forecasting**	Zaafir Riaz; Sajjad Ahmad Khan; Osama Ahmad Alomari

B6 ONLINE — Blockchain, Trust and Post-Quantum Security

3 papers

Day 2 · 13:45–14:45 · Virtual Room 1 · Chair: Dr. Khalid Mahmood

13:45	149	**PQC-Chain: A Lightweight Post-Quantum Blockchain Authentication Protocol for Industrial IoT**	Shaik Khaja Mohiddin; Shehzad Ashraf Chaudhry; Farooq Muhammad; Shaik Sharmila
13:55	20-NR	**Blockchain Technology in Healthcare: Enhancing Data Security, Interoperability, and Transparency**	Keya Gupta; Sandeep Verma
14:05	21	**Shared and Regional Security Operations Centre (SOC) Models for Resource-Constrained UK Local Authorities**	Ugochukwu Anthony Igboko

Monday 23 November 2026

Three on-site keynotes and two parallel blocks. On-site papers meet in the Konferans Salonu; online papers run in Virtual Rooms 1–3.

TIME	PROGRAMME	ROOM
09:30	*Registration and Welcome Coffee*	
10:00	**Opening Ceremony and Welcome Addresses**	Konferans Salonu
10:30	**Keynote 1 — Prof. Dr. Andrey Koucheryavy · on-site**	Konferans Salonu
11:15	*Morning Tea / Coffee Break*	
11:45	**Keynote 2 — Prof. Dr. Montasir Qasymeh · on-site**	Konferans Salonu
12:30	*Lunch Break*	
13:30	**Keynote 3 — Prof. Dr. Shehzad Ashraf Chaudhry · on-site**	Konferans Salonu
14:15	*Afternoon Tea / Coffee Break*	
14:45 – 15:45 BLOCK 1	**A1 ON-SITE** Smart Grids, Storage and Renewable Energy Integration — 6 papers, Konferans Salonu · to 15:55	
	B1 ONLINE AI for Health, Vision and Medical Imaging — 5 papers, VR Room 1	
3 ROOMS	**B2 ONLINE** Intrusion Detection, Malware and Network Security — 4 papers, VR Room 2	
15:45	*Short Break*	
16:00 – 17:00 BLOCK 2	**B3 ONLINE** Secure Systems, Cryptography and DevSecOps — 4 papers, VR Room 1	
	B4 ONLINE LLM Security, Generative AI and Deepfakes — 6 papers, VR Room 2	
3 ROOMS	**B5 ONLINE** IoT, Sensing and Smart Environments — 5 papers, VR Room 3	
17:00	**Day 1 Announcements**	

Tuesday 24 November 2026

Keynote 4 on site, keynotes 5 and 6 online, then one block running four rooms in parallel, closing with the awards ceremony.

TIME	PROGRAMME	ROOM
09:30	*Registration and Welcome*	
10:00	**Keynote 4 — Dr. Samer Sulaeman · on-site**	Konferans Salonu
10:45	*Morning Tea / Coffee Break*	
11:15	**Keynote 5 — Prof. Dr. Neeraj Kumar · online** Join: https://meet.google.com/rmz-sjnk-itc	Virtual Room 1
12:00	**Keynote 6 — Prof. Dr. Ali Kashif Bashir · online** Join: https://meet.google.com/rmz-sjnk-itc	Virtual Room 1
12:45	*Lunch Break*	
13:45 – 14:45 BLOCK 3 4 ROOMS	**A2** ON-SITE — **Wireless Systems, Device Engineering and Data-Driven Applications** — 5 papers — Konferans Salonu **B6** ONLINE — **Blockchain, Trust and Post-Quantum Security** — 3 papers — VR Room 1 **B7** ONLINE — **Machine Learning Applications and Analytics** — 5 papers — VR Room 2 **B8** ONLINE — **Energy Modelling, Bioscience and Emerging Applications** — 5 papers — VR Room 3	
14:45	*Afternoon Tea / Coffee Break*	
15:15	**Best Paper Awards, Closing Ceremony and Group Photo**	Konferans Salonu

Session papers and presentation times

B4 ONLINE — LLM Security, Generative AI and Deepfakes — 6 papers

Day 1 · 16:00–17:00 · Virtual Room 2 · Chair: Dr. Osama Ahmad Alomari

16:00	22	**Large Language Models for Malware Generation, Transformation, and Evasion: A Systematic Literature Review** Phuong Ha Nguyen; Hanh Nguyen
16:10	134	**LLM-Generated Phishing in Enterprise Email: A Focused Literature Review and ISO/IEC 27005-Informed Gap Analysis** Zaki Shaikh; Ahmed Almeheiri; Prosper Yeng
16:20	138	**Large Language Model Security: Adversarial Attacks, Defense Mechanisms, and Open Challenges** Hayfaa Akeil; Sihem Baccari; Mohamed ELHADAD
16:30	115	**TinyAgent: Evaluating Lightweight ReAct-Based LLM Agents for Autonomous Edge Computing** Raashida Farvin; Mourad Elhadef
16:40	15	**Enhancing System Log Anomaly Detection through Retrieval-Augmented Large Language Models: A Controlled Study on HDFS** Bách Nguyễn Ngọc; Huu Hoan Hoang; Van Dai Pham
16:50	161	**Deepfake Detection in the Wild: A Comparative Evaluation of Pretrained Models Under Domain Shift** Wasin Alkishri

B5 ONLINE — IoT, Sensing and Smart Environments — 5 papers

Day 1 · 16:00–17:00 · Virtual Room 3 · Chair: Dr. Farooq Ahmed

16:00	46	**An Edge-Intelligent IoT Architecture for Multi-Sensor Fusion and Resilient Swarm Coordination in Smart-Space Fire Response** Alramzana Navaz; Aliya Nujum; Faiza Hashim; Prosper Yeng; Muhusina Ismail
16:10	140	**A Comprehensive Analysis of IoT Applications and Their Impact on Urban Infrastructure** Rajeev Kumar; Poonam Jaglan; Parul Gupta; Jyoti Sharma
16:20	155	**Simulation-Based Edge Computing Architecture for Citiverse Services with Traffic Prediction and Multi-Agent Task Offloading** Mahmood Al-Bahri
16:30	156	**Reliability–Delay Trade-offs of Fixed Packet Aggregation in LoRaWAN Uplinks** Mahmood Al-Bahri
16:40	157	**Quality-of-Service-Oriented Probabilistic Characterization of a Non-Systematic Maximum-Length-Sequence for Adaptive Redundancy Control** Mahmood Al-Bahri

Session papers and presentation times

B2 ONLINE — Intrusion Detection, Malware and Network Security

4 papers

Day 1 · 14:45–15:45 · Virtual Room 2 · Chair: Dr. Muhammad Asshad

14:45 8 **An Adaptive Host-Based Genetic Algorithm with Proximal Policy Optimization for Intelligent Virtual Machine Migration in Cloud Data Centers**
Tavishi Kashyap; Nimrat Kaur; Mehak Jaan; Kapil Tomar

14:55 14 **A Risk-Adaptive Semantic Intrusion Detection Framework for IEC 60870-5-104 SCADA/AGC Systems**
Cường Lê; Quan Nguyen Duong; Trung Trần

15:05 20-VN **Explainable Feature Fusion for Evasive PE Malware**
Phuong Anh Tuan Doan; Minh Vu; Vu Hai Hoang; Van Dai Pham

15:15 64 **Federated Learning for Network Intrusion Detection:A Survey on Heterogeneity, Privacy, and Security**
Aisha Alyammahi; Abid Mehmood

B3 ONLINE — Secure Systems, Cryptography and DevSecOps

4 papers

Day 1 · 16:00–17:00 · Virtual Room 1 · Chair: Dr. Latif U. Khan

16:00 9 **Securing Event-Driven Microservices Architecture: Vulnerability Analysis and Defense Implementation on Apache Kafka**
Trung Trần; Tuyet Quach Thi

16:10 10-VN **Integrated Cloud-Native DevSecOps Pipeline: An Automated Shift-Left Security Framework and Empirical Evaluation**
Trung Trần; Tuyet Quach Thi

16:20 11 **Comparative Security Evaluation and Defense Mechanisms in Mobile Applications: React Native vs. Native Android Kotlin**
Trung Trần; Son Le Thi Thanh; Quan Nguyen Duong; Hao Nguyen Van

16:30 34 **Digital Twins for Security, Simulation and Resilience in Intelligent Cyber-Physical Systems**
Matija Koren

Wednesday 25 November 2026

A single panel session in the morning, then the optional city tour. No papers are scheduled on the final day.

TIME	PROGRAMME	ROOM
09:30	*Welcome Coffee and Registration*	
10:00	**Panel Discussion — Beyond Smart Technologies: Agentic AI, Digital Twins, and the Future of Intelligent Systems**	Konferans Salonu
11:00	*Morning Tea / Coffee Break*	
11:30	*Networking Lunch*	
13:00	**Istanbul City Tour (optional) — sightseeing and cultural visits**	Optional

THE CLOSING PANEL

WEDNESDAY 25 NOVEMBER · 10:00 – 11:00 · ON-SITE · KONFERANS SALONU

Beyond Smart Technologies: Agentic AI, Digital Twins, and the Future of Intelligent Systems

Moderator and panellists to be confirmed · Istanbul Gelisim University

ISTANBUL CITY TOUR · OPTIONAL

A guided afternoon through the historic peninsula, departing the campus after lunch and returning in the early evening. The route covers the Sultanahmet area and the Bosphorus shoreline, with time for photographs and a short stop for tea.

Participation is optional and booked separately from conference registration. Transport, guiding and entrance fees are included in the tour fee. Delegates joining the tour should wear comfortable shoes; the route is largely on foot.

DEPARTS
13:00, campus

RETURNS
approx. 17:00

BOOKING
separate registration

THE VENUE

ISTANBUL GELISIM UNIVERSITY
Day 3 is hosted on the university campus, a short drive from the city centre. Delegates arriving by taxi should ask for the Gelisim campus.

ACCESS
Registration opens at 09:30 in the foyer. The panel begins at 10:00 in the Mehmet Akif Ersoy Konferans Salonu; ushers will direct delegates from the entrance.

STAYING ON
Delegates remaining in Istanbul after the conference may leave luggage at the venue during the city tour.

Steering the parallel sessions

Ten sessions run in parallel over two days. On-site sessions meet in the Konferans Salonu.

WEDNESDAY 25 NOVEMBER · 10:00 – 11:00 · ON-SITE

Beyond Smart Technologies: Agentic AI, Digital Twins, and the Future of Intelligent Systems

Moderator and panellists to be confirmed · Mehmet Akif Ersoy Konferans Salonu

ON-SITE AND ONLINE CHAIRS

SESSION	CHAIR	AFFILIATION	TOPIC
A1	Dr. Halit Yahya	*Istanbul Gelisim University, Turkey*	Smart Grids, Storage and Renewable Energy Integration
B1	Dr. Sajjad Ahmad Khan	*Kocaeli University, Turkey*	AI for Health, Vision and Medical Imaging
B2	Dr. Muhammad Asshad	*Arab Open University, Oman*	Intrusion Detection, Malware and Network Security
B3	Dr. Latif U. Khan	*Abu Dhabi University, UAE*	Secure Systems, Cryptography and DevSecOps
B4	Dr. Osama Ahmad Alomari	*Abu Dhabi University, UAE*	LLM Security, Generative AI and Deepfakes
B5	Dr. Farooq Ahmed	*Istanbul Gelisim University, Turkey*	IoT, Sensing and Smart Environments
A2	Dr. Jabar Mahmood	*Istanbul Gelisim University, Turkey*	Wireless Systems, Device Engineering and Data-Driven Applications
B6	Dr. Khalid Mahmood	*National Yunlin University of Science and Technology, Taiwan*	Blockchain, Trust and Post-Quantum Security
B7	Dr. Anwar Ghani	*Nazarbayev University, Kazakhstan*	Machine Learning Applications and Analytics
B8	Dr. Mohamed Elhadad	*Abu Dhabi University, UAE*	Energy Modelling, Bioscience and Emerging Applications

Session papers and presentation times

A1 ON-SITE — Smart Grids, Storage and Renewable Energy Integration — 6 papers

Day 1 · 14:45–15:55 · Mehmet Akif Ersoy Konferans Salonu · Chair: Dr. Halit Yahya

14:45 36 **Learning-Based ESS Dispatch for Generation Adequacy**
Samer Sulaeman

14:55 94 **Preliminary Feasibility and Sizing of Grid Tied Renewable EV Charging Infrastructure in Istanbul**
Mai Aldeiri; Dalia Saker

15:05 95 **Cyber-Quarantine Feasibility in Interconnected Microgrids**
Samer Sulaeman

15:15 116 **Intelligent PV Panels Fault Diagnosis for Smart Renewable Energy Infrastructure**
Hala Chikh Aljabal; Endalew Belay; Mohammed Ghazal; Mohamed Jama; Jawad Yousaf

15:25 126 **Integrating Electric Vehicle Charging into Industrial Distribution Boards: Technical Analysis and Field Implementation**
Şehmus TURAN; Ercan Aykut; Muhammet Cihat Mumcu; İzzet Yavuz; Senanur Benli; Kübra Erdoğan

15:35 124 **End-to-End Evaluation of a RISC-V-Controlled Ascon-AEAD128 FPGA Accelerator for Resource-Constrained IoT Devices**
Muhammet Cihat Mumcu; Ercan Aykut; Şehmus Turan; İzzet Yavuz; Sena Nur Benli; Kübra Erdoğan

B1 ONLINE — AI for Health, Vision and Medical Imaging — 5 papers

Day 1 · 14:45–15:45 · Virtual Room 1 · Chair: Dr. Sajjad Ahmad Khan

14:45 10 **Comparative Review on Convolutional Neural Network Architecture for Image Classification**
Tanya Garg; Bandani Kumari; Rudraksh Garg

14:55 13 **DriveAware: Vision Based Driver Alertness Analysis Platform**
Dron Garg; Gurparas Singh; Tarandeep Singh; Saloni Singh; Gurkirat Singh; Tanya Garg; Smita Agrawal

15:05 13-VN **Class-Gated and Sigmoid Knowledge Distillation for Lightweight Chest X-Ray Diagnosis in Edge Healthcare Systems**
Quoc Le Dien; Duc-Binh Nguyen

15:15 143 **A Demographic-Aware Vision-Language Framework for Equitable Diagnosis and Explanation Consistency**
Yohannis Adamu; Shehzad Ashraf

15:25 72 **A Wearable IoT System for Proactive Detection of Photosensitive Seizure Triggers**
Hadil Salman; Arwa Sheibani; Ayesha Amin; Luay Fraiwan; Mohammed Ghazal