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2nd INTERNATIONAL CONFERENCE ON ENGINEERING CHALLENGES AND EMERGING TECHNOLOGIES ICECET 2027

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May 02nd-03rd 2027



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About ICECET 2027

The 2nd International Conference on Engineering Challenges and Emerging Technologies (ICECET 2027) will bring together researchers, academics, engineers, industry professionals, and students to present recent findings, exchange ideas, and build international collaborations. Its five scientific tracks cover artificial intelligence, software engineering, and intelligent computing; computer engineering, communications, and cybersecurity; smart civil engineering and sustainable infrastructure; architectural engineering, smart buildings, and sustainable design; and interdisciplinary smart systems and future technologies. Topics include machine learning, generative AI, data science, IoT, 5G/6G communications, cybersecurity, structural health monitoring, sustainable construction, Building Information Modeling (BIM), digital twins, and smart cities. Organized by the Nawroz Center for Scientific Research at **Nawroz University**, in collaboration with the University's relevant academic departments, ICECET 2027 will take place on **2–3 May 2027** in Duhok, Kurdistan Region, Iraq.



Important Dates

Event	Date
Call for Papers	**15 October 2026**
Submission Deadline	**15 February 2027**
Acceptance Notification	**20 March 2027**
Author Registration	**1 April 2027**
Camera-Ready Submission	**20 April 2027**
Conference Dates	**2–3 May 2027**

Conference Venue

1st Day (Physically)	**Nawroz University Duhok, Kurdistan Region, Iraq**
2nd Day (Virtually)	**Online sessions via Conference Program**

Scopus®

Publication Fees

- **Regular** Authors: USD 300
- **Student** Authors: USD 250

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Engineering and Emerging Technologies Conference



ICECET 2027 welcomes researchers, scientists, engineers, and technology professionals from universities, research institutions, industry, and related organizations. The conference covers a broad range of topics, including artificial intelligence and intelligent computing, software engineering, computer engineering, communications and cybersecurity, civil engineering, sustainable infrastructure, architectural engineering, smart buildings, and interdisciplinary emerging technologies.

Submitted papers will be evaluated through a peer-review process, with acceptance decisions based on their relevance to the conference scope, originality, research quality, and technical contribution. The conference aims to provide a platform for presenting new ideas, building research collaborations, and sharing advances that can help shape the future of engineering and technology.

Conference date: 2–3 May 2027
Venue: Nawroz University, Duhok, Kurdistan Region, Iraq

Topics

Conference Topics and Scope

02nd International Conference on Engineering Challenges and Emerging Technologies (ICECET 2027)

Scope of the Conference

The 2nd International Conference on Engineering Challenges and Emerging Technologies (ICECET 2027), organized by Nawroz University in Duhok, Kurdistan Region, Iraq, will bring together researchers, academics, engineers, industry professionals, and students to share research findings, exchange knowledge, and explore emerging technological and engineering challenges.

The conference provides an interdisciplinary platform for research in artificial intelligence, software engineering, computer and communications engineering, civil engineering, architectural engineering, smart technologies, and sustainable development. It aims to encourage collaboration, promote innovation, and support the development of intelligent, efficient, and sustainable solutions to real-world problems.

Topics of Interest

Authors are invited to submit original and unpublished research papers relevant to the conference themes. Topics of interest include, but are not limited to, the following five tracks.

Track 1: Artificial Intelligence, Software Engineering and Intelligent Computing

This track focuses on advances in AI, intelligent computing, software development, and data-driven applications.

- Artificial intelligence and machine learning
- Deep learning and generative AI
- Large language models and foundation models
- Computer vision and natural language processing
- Explainable and responsible AI
- AI applications in healthcare, education, and industry
- Software architecture and development methodologies
- Software testing and quality assurance
- AI-assisted programming and automated software engineering
- Big data analytics, data mining, and predictive analytics
- Cloud computing, edge AI, and federated learning
- Digital twins and human–computer interaction

Topics

Track 2: Computer Engineering, Communications and Cybersecurity

This track explores developments in computer hardware, communication networks, connected systems, and cybersecurity.

- Computer architecture and embedded systems
- FPGA applications and hardware acceleration
- High-performance and parallel computing
- Wireless and optical communications
- 5G/6G networks and satellite communications
- Signal processing and antenna technologies
- Internet of Things (IoT) and Industrial IoT
- Smart homes, smart cities, and connected systems
- Network security and AI-based cybersecurity
- Intrusion detection and privacy protection
- Blockchain security and digital forensics
- Intelligent networks and network optimization
- Edge and fog computing

Track 3: Smart Civil Engineering and Sustainable Infrastructure

This track addresses innovative engineering methods, intelligent infrastructure, construction technologies, and environmental sustainability.

- Structural analysis and optimization
- Earthquake engineering and structural health monitoring
- Advanced construction materials
- AI applications in construction engineering
- Construction management and automation
- Robotics and safety management in construction
- Intelligent transportation systems and smart mobility
- Traffic prediction and transportation planning
- Water resources and waste management
- Environmental monitoring and climate adaptation
- Sustainable infrastructure and green buildings
- Low-carbon materials and sustainable concrete
- Energy-efficient infrastructure and circular construction

Topics

Track 4: Architectural Engineering, Smart Buildings and Sustainable Design

This track focuses on digital innovation in architecture, intelligent buildings, sustainable design, and urban development.

- Sustainable and green architecture
- Climate-responsive and energy-efficient building design
- Renewable energy integration in buildings
- Sustainable urban development and planning
- Intelligent building systems and automation
- IoT-enabled buildings and energy management
- Indoor environmental quality
- Building Information Modeling (BIM)
- Digital twins and computational architecture
- Parametric and generative architectural design
- GIS applications and urban analytics
- Smart cities and digital urban modeling
- Virtual reality (VR) and augmented reality (AR)
- Digital fabrication, 3D printing, and robotic construction

Track 5: Interdisciplinary Smart Systems and Future Technologies

This track encourages interdisciplinary research combining AI, engineering, architecture, digital technologies, and sustainability.

- AI-based infrastructure monitoring
- Computer vision for construction and engineering
- Predictive maintenance and intelligent engineering systems
- AI-assisted architectural planning and design
- Intelligent building optimization
- Smart city and infrastructure digital twins
- BIM-based intelligent systems
- Connected infrastructure and urban sensing
- Smart energy and intelligent transportation systems
- Green technologies and sustainable digital transformation
- Climate-resilient cities
- Digital technologies for sustainable development
- Smart and sustainable future communities

Submission Invitation

Researchers are encouraged to submit original research papers that address current challenges, present innovative methods, or demonstrate practical applications within the conference tracks.
All submissions will undergo peer review to assess their scientific quality, originality, and relevance to the conference scope.

Conference Committees

The committees of the 2nd International Conference on Engineering Challenges and Emerging Technologies (ICECET 2027) bring together academic leaders, researchers, and professionals from Nawroz University and other national and international institutions. They will support the scientific direction, peer-review process, conference planning, and overall organization of the event.

Conference Honorary Chair

- Asst. Prof. Dr. Mevan Arif Abdulrahman – President, Nawroz University (NU).

Conference Executive Chair

- Prof. Dr. Muayad Aghali Merza – Nawroz University (NU).

Conference Co-Chairs

- Prof. Dr. Ali Haider Al-Jameel – Nawroz University (NU).
- Asst. Prof. Dr. Dilovan Asaad Majeed – Akre University for Applied Science (AUAS).
- Prof. Dr. Salim T. Yousif – Nawroz University (NU).
- Asst. Prof. Dr. Yessar Ezzaldeen Mohammed Ali – Nawroz University (NU).
- Prof. Dr. Turki H. Ali – Nawroz University (NU).

Conference Secretary

- Mr. Abdulazeez Mousa – Nawroz University (NU).

International Scientific Committee

- Assoc. Prof. Dr. Emad Abusham – Sohar University, Oman.
- Asst. Prof. Dr. Walid M. Hasan – Al-Isra University, Jordan.
- Asst. Prof. Dr. Pedro Ricardo da Nova Valente – ISLA, Instituto Politécnico de Gestão e Tecnologia, Portugal.
- Prof. Dr. Ghada Mohamed Amer – Benha University, Egypt.
- Prof. Riyadh Qashi – Leipzig University, Germany.
- Prof. Dr. Asaf Varol – Dalton State College, USA.
- Prof. Dr. Mustafa Sasan – European University of Lefke, Cyprus.

- Habibollah Haron – University Malaysia of Computer Science & Engineering, Malaysia.
- Prof. Dr. Saad Farhan Ibrahim Alabdullah – Al-Isra University, Jordan.
- Dr. Yusliza Binti Yusoff – Universiti Teknologi Malaysia, Malaysia.
- Prof. Dr. Hrudaya Kumar Tripathy – Kalinga Institute of Industrial Technology, India.
- Prof. Dr. Sameh Ghwanmeh – American University in the Emirates, UAE.
- Prof. Dr. Ateeq Ur Rehman – Gachon University, Republic of Korea.
- Dr. Muthmainnah S. – Universitas Al Asyariah Mandar, Indonesia.
- Dr. Iftikhar Naseer – Superior University, Pakistan.
- Dr. Sabri Elkrghli – University of Benghazi, Libya.
- Dr. Hanen Himdi – University of Jeddah, Saudi Arabia.
- Mr. Tauqeer Faiz – University of Wollongong, Dubai, and Swinburne University of Technology, Australia.
- Prof. Dr. M. Affan Badar – Indiana State University, USA.
- Prof. Dr. Valentina E. Balas – University of Arad, Romania.
- Assoc. Dr. Naila Samar Naz – National College of Business Administration & Economics, Pakistan.

National Scientific Committee

- Prof. Dr. Subhi Rafeeq Mohammed – Duhok Polytechnic University (DPU).
- Asst. Prof. Dr. Banar Fareed Ibrahim – Lebanese French University (LFU).
- Asst. Prof. Dr. Dheyaa Ahmed Ibrahim – University of Anbar.
- Asst. Prof. Dr. Mazin Abed Mohammed – University of Anbar.
- Asst. Prof. Dr. Nawzat Sadiq Ahmad – Duhok Polytechnic University (DPU).
- Asst. Prof. Dr. Ramadhan J. Mstafa – University of Zakho (UoZ).
- Asst. Prof. Dr. Wafaa Mustafa Abduallah – Duhok Polytechnic University (DPU).
- Asst. Prof. Dr. Razwan Mhmed Salah Najimaldeen – University of Duhok (UoD).
- Asst. Prof. Dr. Naaman Omar Yaseen – Duhok Polytechnic University (DPU).
- Asst. Prof. Dr. Haval Tariq Sadeeq – Duhok Polytechnic University (DPU).
- Asst. Prof. Dr. Masoud M. Hassan – University of Zakho (UoZ).
- Asst. Prof. Dr. Najdavan Abduljawad Kako – Duhok Polytechnic University (DPU).
- Asst. Prof. Dr. Shakir Fattah Kak – Akre University for Applied Science (AUAS).
- Asst. Prof. Dr. Sagvan Ali Saleh – University of Duhok.
- Asst. Prof. Dr. Firas Mahmood Mustafa AlFaqi – Duhok Polytechnic University (DPU).
- Asst. Prof. Dr. Diyar Qadeer Saleem – Northern Technical University (NTU).
- Asst. Prof. Dr. Salama A. Mustafa – Alnoor University.
- Dr. Dawlat Mustafa Sulaiman – Duhok Polytechnic University (DPU).
- Dr. Dindar Mikaeel Ahmed – Duhok Polytechnic University (DPU).

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Organizing Committee

- Asst. Prof. Dr. Dilovan Asaad Majeed – Head of the Organizing Committee, AUAS.
- Asst. Prof. Dr. Yessar Ezzaldeen Mohammed Ali – Nawroz University (NU).
- Dr. Yaser Hassan Mohammed Tahir – Nawroz University (NU).
- Dr. Reving Masoud Abdulhakeem – Nawroz University (NU).
- Dr. Hishyar Tori Jamil – Nawroz University (NU).
- Mr. Bryar Kamal Omar – Nawroz University (NU).
- Mr. Hawar Bahzad Ahmad – Nawroz University (NU).
- Mr. Rasheed Rebar Ihsan – Nawroz University (NU).
- Mr. Abdulazeez Mousa – Nawroz University (NU).
- Mr. Diler Abdulqader – Nawroz University (NU).
- Mr. Omeed Mohammed Mohammed – Nawroz University (NU).
- Hunar Segvan Khalil – Nawroz University (NU).
- Mr. Pawan Shivan – Nawroz University (NU).

Responsibilities of the Scientific Committee

The Scientific Committee will be responsible for:

- Reviewing submitted papers for scientific quality and relevance.
- Supporting the selection of keynote speakers and technical session contributors.
- Supervising the scientific program and maintaining academic standards.

Responsibilities of the Organizing Committee

The Organizing Committee will coordinate the planning and delivery of ICECET 2027, including conference logistics, promotion, registration, participant coordination, and event activities.

Contact us:

For inquiries and further information, please contact the conference organizing team:

Email: ICECET2027@nawroz.edu.krd

Nawroz University
Tanahi Quarter, Duhok - Kurdistan Region of Iraq
P.O Box 77

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