

INFUS 2026

International Conference on Intelligent and Fuzzy Systems

July 7th-9th, 2026 - Ankara, Türkiye

Theme

Artificial Intelligence for a Sustainable Future: Driving Innovation in the Circular Economy

The Circular Economy (CE) aims to minimize waste and make the most of resources through reuse, repair, remanufacturing, and recycling. However, achieving this system at scale requires data-driven intelligence and automated decision-making — areas where Artificial Intelligence (AI) plays a transformative role. AI technologies such as machine learning, computer vision, optimization algorithms, and intelligent sensing can enhance material tracking, product life extension, and process efficiency across circular value chains. “Artificial Intelligence in Circular Economy” is an increasingly important research and practice area that combines AI technologies with sustainable production, consumption, and waste management systems to achieve resource efficiency and environmental resilience. The conference focuses on exploring how artificial intelligence (AI) technologies can accelerate the transition toward a circular economy, where resources are reused, waste is minimized, and sustainability is embedded in every stage of production and consumption. Topics include AI-driven resource optimization, predictive maintenance for circular manufacturing, intelligent waste management, life-cycle assessment through machine learning, and data-driven sustainability strategies. By bringing together researchers, practitioners, and policymakers, the conference aims to highlight the transformative potential of AI in closing material loops, enhancing green innovation, and building intelligent, resilient, and regenerative economic systems.

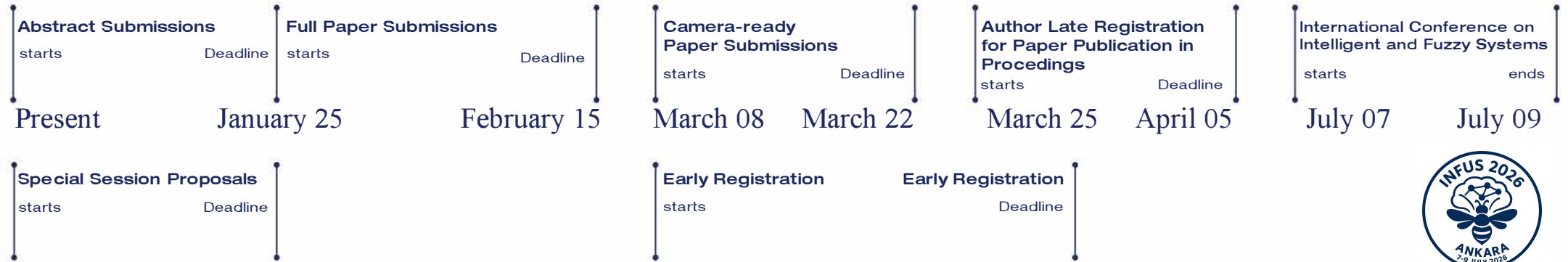


Keynote Speakers

Prof. Janusz Kacprzyk

Prof. Krassimir Atanassov

Important Dates



INFUS Conferences

Let it infuse your scientific life

INFUS is an acronym for Intelligent and Fuzzy Systems. It is an international research forum to advance the foundations and applications of intelligent and fuzzy systems, computational intelligence, and soft computing for applied research in general and for complex engineering and decision support systems. The principal mission of INFUS is bridging the gap between fuzzy & intelligence systems and real complex systems via joint research between universities and international research institutions, encouraging interdisciplinary research and bringing multidisciplinary researchers together.

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Proceedings

All accepted papers will be Double Peer Blind Reviewed and the accepted papers will be published as a book by Springer under “Lecture Notes in Networks and Systems” and will be indexed in Scopus, and submitted for consideration in Web of Science.

Publication Opportunity in Conference Associated Journals

Journal of Multiple-Valued Logic and Soft Computing (SCI-E)

Symmetry (SCI-E)

International Journal of Structural Engineering (ESCI)

Journal of Risk Analysis and Crisis Response (SCOPUS)

Artificial Intelligence Theory and Applications (SCOPUS)

Journal of Intelligent Construction (DOAJ)

Journal of Intelligent Systems in Current Computer Engineering

Special Sessions

Researchers are invited to submit a one-page proposal for a special session to the conference address [infus@itu.edu.tr]. A special discount in registration fee will also be applied to special session organizers.

Program and Social Events

A social program will be organized to the historical peninsula in İstanbul, which includes Topkapı Palace, the Grand and Spice Bazaars along with a Bosphorus Tour.

