Call for Papers
Special Issue of Artificial Intelligence and Knowledge Engineering (AI&KE) Journal on
“AI-Driven Concurrent Engineering”

The International Journal of AI and Knowledge Engineering (IJAIKE) is pleased to announce a Special Issue on "**AI-Driven Concurrent Engineering.**"

Scope and Objectives

As industries strive for **greater efficiency, reduced costs, and accelerated innovation**, **AI-driven Concurrent Engineering** has emerged as a transformative approach to **product development, process optimization, and cross-functional collaboration**. By integrating **AI with Concurrent Engineering**, organizations can enhance **design automation, predictive analytics, and knowledge-driven decision-making** to maintain a **competitive edge in evolving markets**.

Topics of Interest

This **Call for Papers** is seeking **original research, case studies, and novel applications** addressing key advancements in **AI-driven Concurrent Engineering**, including:

- **Accelerated Design & Prototyping** – Leveraging AI to shorten design cycles and optimize engineering workflows.
- **AI-Powered Design Automation & Optimization** – Intelligent algorithms for automated design generation and refinement.
- **AI-Driven Knowledge Sharing Platforms** – Enhancing team collaboration and engineering data accessibility through AI.
- **Enhanced Collaboration Across Multi-Disciplinary Teams** – AI-enabled systems foster seamless coordination between teams.
- **Predictive Analytics for Decision-Making & Risk Assessment** – Using AI to analyze historical trends for informed engineering choices.
- **Automated Process Optimization & AI-Driven Scheduling** – Streamlining concurrent workflows for efficiency and scalability.
- **Smart Integration of IoT and AI in Engineering Systems** – AI-powered IoT applications for real-time system monitoring and control.
- **IoT-Enabled AI Systems for Real-Time Monitoring** – Intelligent sensing and diagnostics for product development and lifecycle management.
- **AI-Driven Sensor Analysis for Product Reliability** – AI-enhanced sensors ensuring precision, durability, and system resilience.
- **Cost Reduction Strategies through AI-Powered Engineering** – Cutting down manufacturing and operational costs via AI-driven efficiencies.
- **AI-Powered Simulation & Testing for Virtual Prototyping** – Advanced AI simulations reduce dependence on physical prototypes.
- **AI-Driven Multi-Physics Modeling in Design Engineering** – AI-assisted modeling for highly accurate multi-domain simulations.
- **AI-Augmented Digital Engineering & Intelligent Product Lifecycle Management--**Digital Twins and AI-Augmented Concurrent Design, AI for Sustainable Product Development & Lifecycle Optimization
- **Federated & Edge AI for Distributed Engineering Systems--**Edge AI for Smart Manufacturing and Process Automation

Authors are encouraged to submit **original, high-quality manuscripts** that explore **theoretical foundations, empirical studies, and innovative applications** in AI-driven Concurrent Engineering from interdisciplinary perspectives.

The IJAIKE journal is an open-access publication managed by the Association for the Advancement of Knowledge Solutions (AAKS) in cooperation with the EurAsia Academic Publishing Group (EAPG).

Submission Guidelines:

- Manuscripts should be submitted via the **Clarivate ScholarOne Manuscript Central Submission** portal at https://mc04.manuscriptcentral.com/jaike
- All submissions will be peer-reviewed to ensure high-quality contributions. Those papers, which rank well in quality content, long-term reference value, originality, relevancy, and presentations, will be considered favorably for publication in the IJAIKE Journal.

Important Dates and Guest Editors:

Submission Deadline:	August 15, 2025
Revision Due:	November 15, 2025
Final Acceptance:	February 30, 2026
Publication Date:	June 2026

For any inquiries regarding this special issue, please contact the Special Issue Guest Editors:

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