

# Cobots and Industrial Robots <sup>\*</sup>

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## Abstract

In the era of rapid technological transformation, artificial intelligence and robotics are becoming essential drivers of innovation across industries. Addressing the need for international dialogue and collaboration, we organized the 2nd International Symposium & Workshop on Cobots and Industrial Robots (CIR-2025). The event took place in Lviv, Ukraine, from April 3–5, 2025, and was held in conjunction with the 2nd International Conference on Smart Automation & Robotics for Future Industry (SMARTINDUSTRY-2025) and the 2nd International Symposium & Workshop on Cobots and Industrial Robots. The workshop served as a dynamic platform for exploring the latest advancements in smart technologies, robotics, and artificial intelligence, with a particular focus on their implementation in industrial and construction settings. Across the three dedicated workshop themes — Business Transformation, Scientific Methods in Real Industry Projects, and Engineering Education for Smart Industry — participants engaged in cross-sector dialogue on real-world challenges, emerging technologies, and collaborative solutions. With the participation of over 60 researchers and practitioners from multiple countries, the event offered a unique opportunity to present innovative solutions, exchange best practices, and discuss the evolving role of robots and cobots in shaping the future of industry. The final session, Advancing Engineering Education for Smart Industry: A Comprehensive Approach, underscored the importance of aligning education with the evolving demands of the smart economy. Academic leaders and tech entrepreneurs discussed modern curricula, interdisciplinary training, and the growing synergy between academia and R&D, preparing the next generation of engineers and innovators. Together, these sessions created a comprehensive platform for dialogue, learning, and collaboration across sectors — reinforcing the critical role of technology, science, and education in shaping a smarter, safer, and more adaptive industrial future.

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