

19th Global Congress on Manufacturing and Management (GCMM2025)

10 to 12 December 2025, Vellore Institute of Technology, Vellore - 632014, India

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The 19th Global Congress on Manufacturing and Management (GCMM 2025), was organized jointly by seven renowned universities from around the world: Vellore Institute of Technology, Vellore, India, University of Southern Queensland, Australia, Liverpool John Moores University, United Kingdom, Coventry University, United Kingdom, University of Minho, Portugal, Wroclaw University of Science and Technology, Poland, Rajamangala University of Technology Krungthep, Thailand. GCMM 2025 brought together around 220 participants from across the globe, including leading researchers and key industry leaders from various sectors. Through keynote sessions, presentations, and discussions, participants explored the avenues for advancing the manufacturing systems and automation from the perspective of Sustainable Manufacturing for Global Economy. This publication presents cutting-edge research and groundbreaking solutions on innovative manufacturing systems and automation. Contributions related to Artificial Intelligence in manufacturing systems, testing, systems monitoring, intelligent control of production systems and AI-based image processing for manufacturing applications are included in this edition. Research outcomes on intelligent manufacturing systems, digital manufacturing and industrial internet of things (IIoT), automation, robotics, and assembly systems, smart manufacturing and intelligent solutions for industry 4.0 and 5.0 are comprehended. This exceptional publication serves as a valuable resource for researchers, engineers, managers, and all professionals interested in the future of manufacturing systems and automation.

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