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global competition. Topics include additive manufacturing, materials processing technology, assembly, disassembly, circular economy, manufacturing systems design and management, quality engineering, production metrology, process and system simulation, optimization, and digital manufacturing. The second part, "White Papers," features five contributions on emerging trends in manufacturing. These papers are prepared by Working Groups focusing on strategic research topics in the manufacturing sector, including metallic prosthetic implants, lasers in electric mobility, digital twins, naval and marine applications, and surface functionalization in biomedical implants. These papers provide an overview of challenges in these frontier areas, highlighting the need for a multidisciplinary and innovative approach from the community to successfully address them.