

1. Record Nr.	UNINA9911114546303321
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Titolo	Advances in Lean Manufacturing, Volume 1 : LEAN in Action: Digital Transformation and Sustainable Practices // edited by Katarzyna Antosz, Justyna Trojanowska, Jose Machado, Dorota Stadnicka
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-032-09806-8 9783032098061
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (516 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	658.5
Soggetti	Industrial management Cooperating objects (Computer systems) Industrial engineering Automation Industrial Management Cyber-Physical Systems Industrial Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book reports on the latest developments and challenges in lean philosophy, within the context of operational excellence. It explores key areas such as data-driven lean strategies, innovative lean training approaches and continuous improvement systems, emphasizing their role in promoting resilience and competitiveness. It highlights the role of lean management in industrial digitalization, automation, and sustainable practices. Based on the 11th European Lean Educator Conference (ELEC 2025), held on October 22-24, 2025, at the Rzeszów University of Technology, Rzeszów, Poland, this first volume of a 2-volume set provides academics and professionals with extensive information on technologies, challenges, and practice-oriented experience for the future of the industry.