

1. Record Nr.	UNISA990003337600203316
Titolo	Atti giudiziari di diritto civile, penale, amministrativo : prova scritta esame avvocato / a cura di Fulvio Cortese, Alberto Pontalti, Paolo Sommaggio
Pubbl/distr/stampa	Milano : Giuffrè, 2009
ISBN	88-14-15108-3
Descrizione fisica	XV, 366 p. ; 24 cm
Collana	Percorsi Giuffrè
Disciplina	347.45055
Soggetti	Atti giudiziari
Collocazione	XXI.6. 193
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910627241203321
Titolo	The Future of Smart Production for SMEs : A Methodological and Practical Approach Towards Digitalization in SMEs / / edited by Ole Madsen, Ulrich Berger, Charles Møller, Astrid Heidemann Lassen, Brian Vejrum Waehrens, Casper Schou
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-15428-2
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (432 pages)
Collana	Engineering Series
Disciplina	016.621757 658.503
Soggetti	Industrial engineering Production engineering Industrial and Production Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Acknowledgements -- 1. Editorial – introduction to the book -- Part I: Vision -- 2. The Smart production vision -- 3. Challenges for SMEs on their Path to Smart Production -- 4. The Vision and Development Trajectory for the Twin Transformation—Cross-Pollination Between SMART and Circular Production -- 5. An Action Design Research Approach to study Digital Transformation in SME -- Part II: Transformation -- 6. Introduction to Part 2 -- 7. Maturity Assessments to support SME overcoming structural changes in their business environment -- 8. How to support the transformation towards Smart Production by applying the Digital Factory Mapping: a case study -- 9. Differences between Small and Medium Sized Companies when realizing Smart Production - Experiences from Northwest Smart Production Program in Denmark -- 10. Innovation Factory North: An Approach to Make Small and Medium Sized Manufacturing Companies Smarter -- 11. Digitalization and Automation in Small and Medium-sized Enterprises: Challenges, needs, and solutions in Brandenburg, Germany -- 12. ARENA2036 a Collaborative Space for the Future of Mobility and Production -- 13. Subscription business models as

accelerators for the adoption of Industry 4.0 by SMEs -- Part III: Solutions -- 14. Introduction to Part 3 -- 15. Improving Responsiveness in SMEs through Changeable and Reconfigurable Manufacturing -- 16. Role of computer simulation in the collaborative robot implementation journey of SMEs -- 17. Intelligent Assistance Systems for Assembly Tasks -- 18. IIoT and smart sensors in human-centered manufacturing -- 19. Paperless Production Demonstrator -- 20. The journey from direct and indirect additive manufacturing of individual parts to virtual warehousing of the parts portfolio: lessons for industrial manufacturers -- 21. A Modular Engineering Pipeline for Mixed Reality Environments -- 22. Predictive analytics applications for small and medium-sized enterprises (SMEs) – A mini survey and real-world use cases -- 23. SMEs and the Sustainability Challenge: Digital shadow enabling smart decision making -- Part IV: Technologies -- 24. Introduction to Part 4 -- 25. Industrial Internet of Things (IIoT) -- 26. CloudComputing: Key to Enabling Smart Production and Industry 4.0 -- 27. Artificial Intelligence and Machine Learning -- 28. 5G Smart Production -- 29. Information Security: The Cornerstone for Surviving the Digital Wild -- 30. Digital Twins: Making it feasible for SMEs -- 31. Augmented Reality: Increasing Availability and its Implication for SMEs -- 32. Additive Manufacturing -- 33. Collaborative Robots for Smart Production in SMEs -- Part V: Competences -- 34. Introduction to Part 5: Competences for Smart Production -- 35. Competences needed for Industry 4.0 and future trends -- 36. Labour 4.0: How is the workforce prepared for the future of manufacturing industries? -- 37. Qualification in Small and Medium-sized Enterprises as the Key Driver for a Digitized Economy -- 38. A Sandbox Approach for Manufacturing Innovation: A Multiple Case Study -- 39. Learning Factories for Learning and Experimentation in Industry 4.0 in SMEs.

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## Sommario/riassunto

This book explains and exemplifies how SMEs can embrace the Smart Production approach and technologies in order to gain a beneficiary outcome. The book describes the Smart Production vision for SMEs, as well as the method to get there. The concept behind the book is based on the long-term experience of the authors in researching and tackling problems of SMEs in the manufacturing sector. The book provides applied methods and obtained solutions in different branches and different sizes of SMEs, encompassing a broad survey of our markets and societies. The perspective is systemic/holistic and integrated including human, organizational, technological, and digital perspectives.

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