Professor Dr.-Ing.

Dominik T. Matt

- Chair of Manufacturing Systems and Technology, Free University of Bozen-Bolzano
- Head of Macroarea of Engineering Research „Industrial Engineering & Automation (IEA)
- Director of Fraunhofer Italia Research (IEC)

Bio

Dominik Matt is a **Full Professor for Manufacturing Technology and Systems** at the Free University of Bolzano and **Director of Fraunhofer Italia Research in Bolzano**, the first research center of Fraunhofer in Italy.

He received his degree (Dipl.-Ing.) in Mechanical Engineering (focus: Manufacturing Engineering) from the Technical University of Munich (TUM) and a Ph.D. in Industrial Engineering (Dr.-Ing.) from the Karlsruhe Institute of Technology (KIT). In 1998, he started working as research project manager for a US company in Boston (MA), USA, where he developed a template model for the fast configuration of supply chain software. In 1999, he entered the Research and Engineering Center of the BMW Group in Munich, where he worked in leading positions on several R&D and manufacturing system design and optimization projects, in Germany and in the UK. Some years later, he joined Matt & Partner Management Consultancy as managing partner. In 2004, he was appointed to the post of a Professor for Manufacturing Technology and Systems in the Department of Production Systems and Business Economics at the Polytechnic University of Turin (Politecnico di Torino), Italy. In 2008, he accepted a call of the Free University of Bolzano to a tenured professorship.

Besides his Chair of Manufacturing Technology and Systems, Prof. Matt heads the engineering research area "Industrial Engineering and Automation (IEA)" at the Faculty of Engineering at the Free University of Bozen-Bolzano. Moreover, he is the founder of the “Smart-Mini-Factory Laboratory” (smartminifactory.it) at the Free University of Bolzano, one of the first Learning Factories working on Industry 4.0 topics in Italy.

Since 2010, Professor Matt is also the Director of Fraunhofer Italia in Bolzano, the first research subsidiary of Fraunhofer in Italy (www.fraunhofer.it).

Prof. Matt is member in numerous renowned scientific boards and organizations (e.g. the German National Academy of Science and Engineering, acatech) and is a frequently invited speaker at international conferences.

Research Interests

The research of Professor Matt focuses primarily on the following areas:

- **Artificial Intelligence in Manufacturing Systems** (robot imitation learning, decentralized and AI supported control of production)
- **Industry 5.0, Smart and Green Factory, Sustainable and bioinspired Manufacturing** (sustainable, human-centric and resilient production systems with special attention to the characteristics of SMEs)
- **Lean and Agile Production**
- **Axiomatic Design** (Design for Uncertainty, Complexity Management)
- **Digital Transformation and Innovation**

SCOPUS database (20.04.2023): **184 documents** classified in Scopus, H-Index: **h = 27**

Prof. Matt is **listed among the most cited professors as well as among the 2% top scientists for long career-impact** in their specific fields (elsevier.digitalcommonsdata.com, 08/2022).

At UniBZ & Fraunhofer Italia, Prof. Matt coordinates a **third party funded research budget of > 2 million €/a.**

Recent Awards

- 2021: Best Paper Award, 8th International Conference on Augmented Reality, Virtual Reality, and Computer Graphics (Salento AVR 2021) for the paper “Optimizing Collaborative Robotic Workspaces in Industry by applying Mixed Reality”
- 2021: Park Award (ICAD 2021) for the world best paper on Axiomatic Design in the years 2019/2020 entitled “Axiomatic design guidelines for the design of flexible and agile manufacturing and assembly systems for SMEs”.
- 2021: Distinguished Educator Award in recognition and appreciation of exceptional achievements, leadership and contributions in Academia and Dedication & Service in the Industrial Engineering (IEOM 2021)
- 2019: Best Application Paper Award, 3rd place, the 28th International Conference on Robotics in Alpe-Adria-Danube Region (RAAD 2019)

Memberships

- Full member of the renowned German National Academy of Science and Engineering (www.acatech.de)
- Full member of the Italian Association of Mechanical Technology (AITEM).
- Full member of the Academic Society for Work and Industrial Organization (WGAB).
- Full member of the Association "European Virtual Institute on Innovation in Industrial Supply Chains and Logistic Networks" (EVI).
- Member of the Scientific Committee of the International Biennial Conference of Axiomatic Design (ICAD).
- Member of the Scientific Committee of IRE Bolzano (Institute for Economic Research).

Editorial and Reviewer Activities

- Reviewer for the following Journals:
    - International Journal of Production Research (Taylor & Francis)
    - Production Planning and Control (Taylor & Francis)
    - Computers in Industry (Elsevier)
    - Journal of Manufacturing Technology Management (Emerald)
    - International Journal of Procurement Management (Inderscience)
    - International Journal of Sustainable Engineering (Taylor & Francis)
    - Quality and Reliability Engineering International (Wiley)
    - Journal of Mechanical Engineering Science (Sage Publishing)
    - Asean Journal of Current Reasearch (International Knowledge Press)
    - Zeitschrift für Wirtschaftlichen Fabrikbetrieb (De Gruyter)
- Grant Reviewer for:
    - DFG – Deutsche Forschungsgesellschaft (Federal Republic of Germany)
    - BMBF – Bundesministerium für Bildung und Forschung (Federal Republic of Germany)
    - Norges forskningsråd (Research Council of Norway)
    - ASTAR Agency for Science, Technology and Research, Ministry of Education, Singapore
- Recent Editorial Activities:
    - Member of the Editorial Advisory Board of the Journal of Manufacturing Technology Management
    - Publisher of the book "KMU 4.0 - Digital Transformation in kleinen und mittelständischen Unternehmen" (Gito-Verlag, prof. Dominik T. Matt) - published in 2018
    - Publisher of the book "Industry 4.0 for SMEs - Challenges, Opportunities and Requirements" (Palgrave Macmillan, prof. DT Matt. prof. V Modrák, prof. H Zsifkovits) – published in 2021
    - Co-editor of the Special Issue "Complexity Measures and Models in Supply Chain Networks" of the Journal Complexity (Wiley and Hindawi) - published in 2018
    - Member of the Editorial Advisory Board for the publication of the book "Mass Customized Manufacturing" (IGI Global, prof. Vladimír Modrák) - published 12/2016
    - Member of the Editorial Advisory Board for the publication of the book "Design Engineering and Science" (Springer, Prof. Nam P. Suh) - published in 2020.

Recent Research Projects

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Project lead:

- **SME 5.0 -** A Strategic Roadmap Towards the Next Level of Intelligent, Sustainable and Human-Centred SMEs. European Research Project HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA). Total funding: € 1.168.400; 2023-2026 (budget for unibz: € 317.400);
- **SME 4.0** - Industry 4.0 for SMEs - Smart Manufacturing and Logistics for SMEs in an X-to-order and Mass Customization Environment (SME 4.0). European Research Project H2020-MSCA-RISE-2016. Total budget: 954.000, total funding 783.000; 2017-2020 (budget for unibz: € 333.000);
- **A21 Digital Tyrol Veneto** - Development of a strategy for the future and concrete proposals for action on the opportunities and challenges related to Digitization for the Macro-Region of Tyrol, Alto-Adige and Veneto. Interreg V-A Italy-Austria project - Call for proposals 2017. Budget and total funding: 300,938; 2018-2019 (budget for unibz: € 155,000);
- **E-EDU 4.0** - Engineering Education 4.0: Platform for engineering education in I4.0 technologies. Interreg V-A Italy-Austria project - Call for proposals 2017. Budget and total funding: 1,150,000; 2018-2019 (budget for unibz: € 180,000);
- **SMART SHOPFLOOR** - "Development of a software prototype for intelligent Shop Floor Management through Industry 4.0 technologies". Project financed with internal funds of the Free University of Bozen/Bolzano. 2018-2019 (€ 70.000);
- **ASSIST4WORK** - Social sustainability in production through age-appropriate and disability-friendly workplace design using assistance systems. Project financed with internal funds of the Free University of Bozen/Bolzano. 2018-2019 (€ 98.000);

Participation:

- **ETAT** - Education & Training for Automation 4.0 in Thailand. Erasmus+ KA 2-3; 2020-2023. (€ 63.966);
- **ICARUS** - An Innovative Higher Education Institution Training Toolbox to EffeCtively AddRess the EUropean InduStry 4.0 Skills Gap and Mismatches. Erasmus+ KA 2-3; 2019-2022. (€ 61.670);
- **SMF4INFRA** - Smart Mobile Factory for Infrastructure Projects. Joint Projects CH-I; 2022-2024. (€ 266.403);
- **ASSIST4RESILIENCE** - Increasing Resilience in Manufacturing - Development of a Digital Twin Based Worker Assistance. Special Projects; 2022-2023. (€ 169.500);
- **DIGPLABI** - DIGital PLAtform for Building and Infrastructure Projects. Contract for research project; 2021-2023. (€ 65.800);
- **MASTERMIL** - Mastering the digital transformation in the family business: Getting ready for the Millennial generation. ID2020 - Project financed with internal funds of the Free University of Bozen/Bolzano. 2020 - 2023. (€ 173.000);
- **CONFUCIUS** - "Study the past if you would define the future": Discovering Patterns in Scheduling and Monitoring Data. ID2020 - Project financed with internal funds of the Free University of Bozen/Bolzano. 2020 -2023. (€ 110.000);
- **COCkPiT** - Collaborative Construction Process managemenT - Development of a prototype for the collaborative management of processes related to construction. ERDF 2014-2020 (€ 747,700, of which about 2/3 for unibz and 1/3 for Fraunhofer Italia);
- **EYE TRACK** - Usability of Eye Tracking for Manufacturing in SMEs. Project financed with internal funds of the Free University of Bozen/Bolzano. 2018-2019. (€ 63.000);

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At Fraunhofer Italia, Prof. Matt actually coordinates a yearly third-party funding of about **1,2-1,5 Mio. €/a**.

The volume of third-party research funds coordinated by Prof Matt at Fraunhofer Italia since the research institute was founded in 2010 amounted to around **11 million euros** (2010-2022).

Publications (last 10 years)

Refereed journals

1. MATT, D.T., PEDRINI, G., BONFANTI, A., ORZES, G. (2023), Industrial digitalization. A systematic literature review and research agenda, European Management Journal, 41 (1), pp. 47-78.
2. BARBINI, A., MALACARNE, G., MASSARI, G.A., MATT, D.T. (2022), Environmental impacts visualization through open BIM procedures [Visualizzazione di impatti ambientali tramite procedure open BIM], TECHNE, 23, pp. 240-249.
3. MARK, B.G., RAUCH, E., MATT, D.T. (2022), Systematic selection methodology for worker assistance systems in manufacturing, Computers and Industrial Engineering, 166, art. no. 107982.
4. ADIGUN, J.G., CAMILLI, M., FELDERER, M., GIUSTI, A., MATT, D.T., PERINI, A., RUSSO, B., SUSI, A. (2022), Collaborative Artificial Intelligence Needs Stronger Assurances Driven by Risks, Computer, 55 (3), pp. 52-63.
5. MARCHER, C., GIUSTI, A., MATT, D.T. (2021), On the design of a decision support system for robotic equipment adoption in construction processes, Applied Sciences (Switzerland), 11 (23), art. no. 11415.
6. SCHIMANSKI, C.P., PRADHAN, N.L., CHALTSEV, D., PASETTI MONIZZA, G., MATT, D.T. (2021), Integrating BIM with Lean Construction approach: Functional requirements and production management software, Automation in Construction, 132, art. no. 103969.
7. ROJAS, R., RAUCH, E., MATT, D.T. (2021), Research Fields and Challenges to implement Cyber-Physical Production Systems in SMEs: A Literature Review, Chiang Mai University Journal of Natural Sciences, 20 (2), art. no. e2021022, pp. 1-19.
8. MARK, B.G., RAUCH, E., MATT, D.T. (2021), Worker assistance systems in manufacturing: A review of the state of the art and future directions, Journal of Manufacturing Systems, 59, pp. 228-250.
9. RAUCH, E., UNTERHOFER, M., NAKKIEW, W., BAISUKHAN, A., MATT, D.T. (2021), Potential of the Application of Additive Manufacturing Technology in European SMEs, Chiang Mai University Journal of Natural Sciences, 20 (2), art. no. e2021023, pp. 1-14.
10. MATT, D.T., MOLINARO, M., ORZES, G., PEDRINI, G. (2021), The role of innovation ecosystems in Industry 4.0 adoption, Journal of Manufacturing Technology Management, 32 (9), pp. 369-395.
11. BROZZI, R., RAUCH, E., RIEDL, M., MATT, D.T. (2021), Industry 4.0 roadmap for SMEs: Validation of moderation techniques for creativity workshops, International Journal of Agile Systems and Management, 14 (2), pp. 276-291.
12. FOLLINI, C., MAGNAGO, V., FREITAG, K., TERZER, M., MARCHER, C., RIEDL, M., GIUSTI, A., MATT, D.T. (2021), Bim-integrated collaborative robotics for application in building construction and maintenance, Robotics, 10 (1), art. no. 2, pp. 1-19.
13. MATT, D.T., ORZES, G., RAUCH, E., DALLASEGA, P. (2020), Urban production – A socially sustainable factory concept to overcome shortcomings of qualified workers in smart SMEs, Computers and Industrial Engineering, 139, art. no. 105384
14. BROZZI, R., FORTI, D., RAUCH, E., MATT, D.T. (2020), The advantages of industry 4.0 applications for sustainability: Results from a sample of manufacturing companies, Sustainability (Switzerland), 12 (9), art. no. 3647
15. RAUCH, E., UNTERHOFER, M., ROJAS, R.A., GUALTIERI, L., WOSCHANK, M., MATT, D.T. (2020); A maturity level-based assessment tool to enhance the implementation of industry 4.0 in small and medium-sized enterprises, Sustainability (Switzerland), 12 (9), art. no. 3559
16. BRUNETTI, F., MATT, D.T., BONFANTI, A., DE LONGHI, A., PEDRINI, G., ORZES, G. (2020); Digital transformation challenges: strategies emerging from a multi-stakeholder approach, TQM Journal, 32 (4), pp. 697-724.
17. MATT, D.T., RIEDL, M., RAUCH, E. (2020); Nature as inspiration - Role of biological transformation in the future design of manufacturing systems [Die Natur als Inspiration: Die Rolle der biologischen Transformation zur zukünftigen Gestaltung von Produktionssystemen], ZWF Zeitschrift fuer Wirtschaftlichen Fabrikbetrieb, 115 (3), pp. 158-161.
18. SCHIMANSKI, C.P., MARCHER, C., MONIZZA, G.P., MATT, D.T. (2020), The last planner® system and building information modeling in construction execution: From an integrative review to a conceptual model for integration, Applied Sciences (Switzerland), 10 (3), art. no. 821
19. DI COSMO, V., GIUSTI, A., VIDONI, R., RIEDL, M., MATT, D.T. (2020). Collaborative Robotics Safety Control Application Using Dynamic Safety Zones Based on the ISO/TS 15066:2016. Advances in Intelligent Systems and Computing, 980, pp. 430-437.
20. RAUCH E, RUSSO SPENA P, MATT DT (2019). Axiomatic design guidelines for the design of flexible and agile manufacturing and assembly systems for SMEs. INTERNATIONAL JOURNAL ON INTERACTIVE DESIGN AND MANUFACTURING, vol. 13, p. 1-22.
21. RATAJCZAK J, RIEDL M, MATT DT (2019). BIM-based and AR application combined with location-based management system for the improvement of the construction performance. BUILDINGS, vol. 9, ISSN: 2075-5309, doi: 10.3390/buildings9050118
22. MARK BG, RAUCH E, BORGIANNI Y, MATT DT (2019). Eye Tracking in der Produktion 4.0: Eye Tracking als nützliche Technologie zur Optimierung der Produktionsprozesse im Zeitalter von Industrie 4.0 | Eye Tracking in Production 4.0: Eye Tracking as a useful technology for improving production processes in the age of Industry 4.0.. ZWF, vol. 114, p. 72-75, ISSN: 0947-0085, doi: 10.3139/104.112032
23. MATT DT, RAUCH E, UNTERHOFER M, RIEDL M, BROZZI R (2019). Industrie 4.0 Assessment als Orientierungshilfe für KMUs - Bewertungsmodell zur Festlegung und Priorisierung von Industrie 4.0 Umsetzungsmaßnahmen in KMUs. INDUSTRIE-MANAGEMENT, p. 7-10, ISSN: 1434-1980
24. MATT DT, RAUCH E, UNTERHOFER M, RIEDL M, BROZZI R (2019). Industrie 4.0-Assessment als Orientierungshilfe für KMUs: Bewertungsmodell zur Festlegung und Priorisierung von Industrie 4.0-Umsetzungsmaßnahmen in KMUs. INDUSTRIE-MANAGEMENT, vol. 35, p. 7-10, ISSN: 1434-1980
25. RAUCH E, ROJAS R, DALLASEGA P, MATT DT (2018). Smart Shopfloor Management – Requirements for a Digital and Smart Shop Floor Management in the Age of Industry 4.0. ZWF, vol. 113, p. 2-6, ISSN: 0947-0085, doi: 10.3139/104.111854
26. PASETTI MONIZZA G, BENEDETTI C, MATT DT (2018). Parametric and Generative Design techniques in mass-production environments as effective enablers of Industry 4.0 approaches in the Building Industry. AUTOMATION IN CONSTRUCTION, vol. 92, p. 270-285, ISSN: 0926-5805, doi: https://doi.org/10.1016/j.autcon.2018.02.027

Refereed journals *(continued)*

26. RAUCH E, MATT DT, LINDER C (2018). Lean Management in Hospitality: Methods, Applications and Future Directions. INTERNATIONAL JOURNAL OF SERVICES AND OPERATIONS MANAGEMENT, ISSN: 1744-2370
27. MALACARNE G, TOLLER G, MARCHER C, RIEDL M, MATT DT (2018). Investigating benefits and criticisms of bim for construction scheduling in SMEs: An Italian case study. INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND PLANNING, vol. 13, p. 139-150, ISSN: 1743-7601, doi: 10.2495/SDP-V13-N1-139-150
28. GASPARETTO W, EGGER G, GIUSTI A, RAUCH E, RIEDL M, MATT DT (2018). Intelligent workpiece carrier for distributed data collection and control in manufacturing environments. PROCEDIA MANUFACTURING, p. 190-195, ISSN: 2351-9789, doi: 10.1016/j.promfg.2018.06.040
29. ROJAS R, RAUCH E, MATT DT (2018). Connectivity in Cyber-Physical Production Systems: Three-Tier Industrial Internet System Model for Connectivity of heterogeneous Elements in Cyber-Physical Production Systems. ZWF, vol. 113, p. 165-169.
30. RAUCH E, DALLASEGA P, MATT DT (2018). Complexity reduction in engineer-to-order industry through real-time capable production planning and control. PRODUCTION ENGINEERING, ISSN: 0944-6524, doi: 10.1007/s11740-018-0809-0
31. D'AMICO D, EGGER G, GIUSTI A, RAUCH E, RIEDL M, MATT DT (2018). Communication Concept of DeConSim: A Decentralized Control Simulator for Production Systems. PROCEDIA MANUFACTURING, vol. 24, p. 100-106, ISSN: 2351-9789, doi: 10.1016/j.promfg.2018.06.015
32. RAUCH E, RUSSO SPENA P, MATT DT (2018). Axiomatic design guidelines for the design of flexible and agile manufacturing and assembly systems for SMEs. INTERNATIONAL JOURNAL ON INTERACTIVE DESIGN AND MANUFACTURING, ISSN: 1955-2513, doi: 10.1007/s12008-018-0460-1
33. MATT DT, ARCIDIACONO G, RAUCH E (2018). Applying Lean to Healthcare Delivery Processes: A Case-based Research. INTERNATIONAL JOURNAL OF ADVANCED SCIENCE, ENGINEERING AND INFORMATION TECHNOLOGY, vol. 8, p. 123-133, ISSN: 2088-5334, doi: 10.18517
34. MARCHESI, M., MATT, D.T. (2017), Design for mass customization: Rethinking prefabricated housing using axiomatic design, Journal of Architectural Engineering, vol. 23, no. 3.
35. ARCIDIACONO, G., MATT, D.T., RAUCH, E. (2017), Axiomatic Design of a Framework for the Comprehensive Optimization of Patient Flows in Hospitals, Journal of Healthcare Engineering, DOI: 10.1155/2017/2309265
36. RAUCH, E., DALLASEGA, P., MATT, D.T. (2016), Sustainable production in emerging markets through Distributed Manufacturing Systems (DMS), Journal of Cleaner Production, 135, pp. 127-138.
37. CIARAPICA F, ROSSINI M, RUSSO SPENA P, MATT DT (2016). Factors and barriers affecting the purchase of electric vehicles in the Italian market. INTERNATIONAL JOURNAL OF PRODUCTIVITY AND QUALITY MANAGEMENT, vol. 18, p. 210-237, ISSN: 1746-6474
38. ROSSINI M; CIARAPICA FE; MATT DT; RUSSO SPENA P (2016). A preliminary study on the changes in the Italian automotive supply chain for the introduction of electric vehicles. JIEM Journal of Industrial Engineering and Management, vol 9, no 2, pp. 450-486.
39. MATT D. T., RAUCH E., FRACCAROLI D. (2016). Smart Factory für den Mittelstand: Gestaltung eines ganzheitlichen Produktionssystems nach der Industrie 4.0 Vision in kleinen und mittelständischen Unternehmen (KMU). ZWF, vol. 111/1-2, p. 52-55, ISSN: 0947-0085
40. MATT DT, RAUCH E (2015). Industrie 4.0 - Arbeitsorganisation in der Urbanen Fabrik von morgen (Industry 4.0 - Organization of work in the urban factory of the future). INDUSTRIE-MANAGEMENT, vol. 3, p. 31-35, ISSN: 1434-1980
41. RAUCH E, MATT DT, DALLASEGA P (2015). Mobile Factory Network (MFN) – Network of Flexible and Agile Manufacturing Systems in the Construction Industry. ADVANCED MATERIALS RESEARCH, p. 1368-1373, ISSN: 1022-6680, doi: 10.4028/www.scientific.net/AMM.752-753.1368
42. MATT D. T., RAUCH E., DALLASEGA P., VIDONI R., RUSSO SPENA P. (2015). Synchronisierung von ETO Fertigung und Baustellenmontage: Montageorientierte Fertigung und Just-in-Time-Baustellenversorgung in Engineer-to-Order-Industrieunternehmen. ZWF, vol. 110, p. 9-13, ISSN: 0947-0085
43. MATT D. T., RAUCH E., FRANZELLIN V.M. (2015). An Axiomatic Design based approach for the patient-value oriented design of a sustainable Lean Healthcare System. INTERNATIONAL JOURNAL OF PROCUREMENT MANAGEMENT, vol. 8, p. 66-81, ISSN: 1753-8432
44. MATT D. T. (2014). Adaptation of the Value Stream Mapping approach to the design of lean engineer-to-order production systems: a case study. JOURNAL OF MANUFACTURING TECHNOLOGY MANAGEMENT, vol. 25, p. 334-350, ISSN: 1741-038X, doi: DOI 10.1108/JMTM-05-2012-0054
45. MATT D. T., ZGAGA J., WEGER J. (2014). Axiomatic Design und TRIZ: Erfolgsduo für die Produktentwicklung (Axiomatic Design and TRIZ: successful duo for product development). INDUSTRIE-MANAGEMENT, p. 57-61, ISSN: 1434-1980
46. ROSSINI M., MATT D. T., RUSSO SPENA P., LUCCARELLI M. (2014). Electric Vehicles Market Penetration Forecasts and Scenarios: A Review and Outlook. INTERNATIONAL JOURNAL OF OPERATIONS AND QUANTITATIVE MANAGEMENT, vol. 20, p. 153-192, ISSN: 1082-1910
47. MATT D. T. (2013). Design of a scalable assembly system for product variety: a case study. Assembly Automation, vol. 33, no. 2, pp. 117-126, ISSN: 0144-5154, doi:10.1108/01445151311306627.
48. CIARAPICA, F. E., MATT, D. T., LUCCARELLI, L., ROSSINI, M., RUSSO SPENA, P. (2013). Factors affecting future scenarios for alternative vehicles market, ADVANCED MATERIALS RESEARCH, vols. 608-609, pp. 1607-1612, doi:10.4028/www.scientific.net/AMR.608-609.1607
49. MATT, D. T. (2013). Extension of the Value Stream Mapping approach to the comprehensive design of a lean sheet metal manufacturing system: an industrial case study. KEY ENGINEERING MATERIALS, Trans Tech Publications, Vol. 549, pp. 537-544, doi:10.4028/www.scientific.net/KEM.549.537
50. MATT D. T. (2013). Design of a Scalable Modular Production System for a Two-stage Food Service Franchise System, INTERNATIONAL JOURNAL OF ENGINEERING BUSINESS MANAGEMENT, Wai Hung Ip (Ed.), ISBN: 1847-9790, InTech, Available from: http://www.intechopen.com/journals/international_journal_of_engineering_business_management/design-of-a-scalable-modular-production-system-for-a-two-stage-food-service-franchise-system

Books and Book Chapters

1. MATT, D.T., RAUCH, E. (2020), SME 4.0: The role of small-and medium-sized enterprises in the digital transformation, Industry 4.0 for SMEs: Challenges, Opportunities and Requirements, pp. 3-36.
2. MATT, D.T., MODRÁK, V., ZSIFKOVITS, H. (2020), Preface, Industry 4.0 for SMEs: Challenges, Opportunities and Requirements, pp. VII.
3. RAUCH, E., VICKERY, A.R., BROWN, C.A., MATT, D.T. (2020), SME requirements and guidelines for the design of smart and highly adaptable manufacturing systems, Industry 4.0 for SMEs: Challenges, Opportunities and Requirements, pp. 39-72.
4. MORANDELL F, MARK BG, RAUCH E, MATT DT (2019). Engineering Education 4.0: Herausforderungen und Empfehlungen für eine zukunftsorientierte Gestaltung der Ausbildung von Fachkräften und Ingenieuren. In: (a cura di): Spath D;Spanner-Ulmer B, Digitale Transformation - Gutes Arbeiten und Qualifizierung aktiv gestalten. p. 273-298, Berlin:GITO Verlag, ISBN: 9783955453091
5. MATT DT, ORZES G, PEDRINI G, BELTRAMI M, RAUCH E (2019). Mensch und digitale Technologie: Eine Roadmap für die digitale Transformation einer Alpenregion. In: (a cura di): Spath D;Spanner-Ulmer B, Digitale Transformation - Gutes Arbeiten und Qualifizierung aktiv gestalten. p. 187-204, Berlin:GITO Verlag, ISBN: 978-3-95545-309-1
6. MATT DT, ORZES G, PEDRINI G, BELTRAMI M, RAUCH E (2019). Mensch und digitale Technologie: eine Roadmap für die digitale Transformation einer Alpenregion. In: (a cura di): Spath D;Spanner-Ulmer;B, Digitale Transformation - Gutes Arbeiten und Qualifizierung aktiv gestalten. p. 187-204, GITO mbH Verlag, ISBN: 978-3-95545-309-1
7. MATT DT, RAUCH E, RIEDL M (2018). Knowledge Transfer and Introduction of Industry 4.0 in SMEs: A Five-Step Methodology to Introduce Industry 4.0. In: (a cura di): Brunet-Thornton R;Martinez F, Analyzing the Impacts of Industry 4.0 in Modern Business Environments. p. 256-282, IGI Global, ISBN: 9781522534686, doi: 10.4018/978-1-5225-3468-6
8. MATT DT, SILLER M, FRANZELLIN V (2017). Approcci e soluzioni operative: Azienda sanitaria dell'Alto Adige-Südtirol. In: (a cura di): Bacci A, Lean healthcare management: meno sprechi, più competitività. p. 287-308, Wolters Kluwer, ISBN: 978-88-217-6257-4
9. MATT DT, RAUCH E (2017). Designing assembly lines for mass customization production systems. In: (a cura di): Modrak V, Mass Customized Manufacturing: Theoretical Concepts and Practical Approaches. p. 15-35, CRC Press, ISBN: 978-1-4987-5545-0
10. RIEDL M, GARCIA D, RAUCH E, MATT DT (2016). Industrie 4.0: Wissenstransfer von der Forschung in die Praxis. In: Schlick CM (Hrsg), Megatrend Digitalisierung – Potenziale der Arbeits- und Betriebsorganisation? p. 111-129, Berlin:Gito, ISBN: 978-3-95545-185-1
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