Curriculum Vitae

Prof. Dr.-Ing.

Dominik T. Matt

- Full Professor of Manufacturing Technology and Systems , Free University of Bozen-Bolzano (FUB)
- Coordinator of the „Institute of Industrial and Energy Engineering“ and Head of the Engineering Research Macroarea „Industrial Engineering & Automation (IEA)“ at the Faculty of Engineering, FUB
- Director of Fraunhofer Italia Research scarl

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 earned a degree (“Dipl.-Ing.”) in Mechanical Engineering (specialization: Manufacturing Engineering) from the **Technical University of Munich (TUM)** in 1994 and a Ph.D. in Industrial Engineering (“Dr.-Ing.”) from the **Karlsruhe Institute of Technology (KIT)** in 1998. During his service at KIT, he led a research project at a high-tech start-up in Cambridge/Boston, 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. In 1999/2000, while still working at BMW, he took on a position as external lecturer on behalf of the Polytechnic University of Turin (Politecnico di Torino) in the bachelor's degree program "Logistics and Production Engineering" offered at the Free University of Bozen-Bolzano (FUB), for which he also took over the program coordination in 2001.

In 2004, he was appointed to the post of an Associate Professor for Manufacturing Technology and Systems (ING-IND/16) in the Department of Production Systems and Business Economics at **Politecnico di Torino**, Italy.

In 2008, he accepted a call of the **Free University of Bozen-Bolzano** to a tenured Associate Professorship at the Faculty of Science and Technology. In 2010, he won a national competition for the position of Full Professor at the FUB where he coordinates the „Institute of Industrial and Energy Engineering“ and the engineering research area "Industrial Engineering and Automation (IEA)“ at the Faculty of Engineering. Moreover, he is the initiator of the “Smart-Mini-Factory Laboratory” (smartminifactory.it), one of the first Learning Factories working on Industry 4.0 topics in Italy and member of the International Association of Learning Factories (IALF).

Since 2010, Professor Matt is also the Director of **Fraunhofer Italia** in Bolzano, the first research subsidiary of Fraunhofer in Italy (www.fraunhofer.it), where he coordinates a research staff of about 50 people.

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.

Facts & Figures

Publications (Status: 01/2026)

Google Scholar

404 documents, 8980 citations, **h = 49**

Scopus

239 documents, 4698 citations, **h = 37**

Elsevier BV

Prof. Matt is **listed among the most cited professors and among the 2% top scientists for long career-impact** in their specific fields.
(elsevier.digitalcommonsdata.com, 08/2025).

Funding (last 10 years)

@unibz:

More than 20 research projects during the last 10 years, **mostly** as **Principal Investigator or Co-Investigator.**

Total funding during the last 10 years: **4.5 million €**, of which

- **external** funding (third party): 4 million € (**89%**)
- **internal** funding (unibz): 0.5 million € (**11%**)

In 2017, Prof. Matt received the **“Best Fund Raising” award** at the “Dies Academicus”. In 12/2021, the **University Council** provided as **reward of excellence** one postdoc position to the group directed by Prof. Matt.

@fraunhofer:

At Fraunhofer Italia, Prof. Matt coordinated during the last 10 years a **third party funded research budget of about 10 million €.**

Main Research Interests

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

- **Digital Transformation** (specific focus on small and medium sized enterprises)
- **(Lean) Industry 4.0 and Smart Factory** (hybrid assembly systems, human-centered anthropocentric production systems, smart assistance systems for production, interrelationships between Lean Production and Industry 4.0; Industry 4.0 applied to Engineer-to-Order and construction industry)
- **Artificial Intelligence in Manufacturing Systems** (robot imitation learning, decentralized and AI supported control of production, decision support systems)
- **Industry 5.0 and the Ecological and Digital Transition** (reconfigurable and intelligent systems for sustainable production processes; re-/configuration of cross-regional circular bio-based value chains, biological transformation)
- **Axiomatic Design** (Manufacturing System Design for Uncertainty and Resilience, Complexity Management)

Summary of research activity

Digital Transformation

Digital transformation is one of the most significant, impactful and systemic changes in human history. It brings enormous challenges to the economy, businesses, society, and individuals. Many of the new technologies such as mobile internet, 3D printing, Industry 4.0, artificial intelligence, robotics, etc. are disruptive and fundamentally change the way we do business, communicate and live. Europe and especially the peripheral regions with their economic fabric composed mainly of small and medium-sized enterprises are lagging in digital transformation.

Prof. Matt and his research team investigated opportunities and risks of digital transformation in the region from Tyrol to Veneto. The main research questions were: What are the challenges of digital transformation for the economy and society in the region? What are the opportunities and threats? How can companies successfully adopt digital technologies and embrace digital transformation in their business models? How can society as a whole address all the challenges? What steps need to be taken in policy, education, business, science, infrastructure, etc.? What are the critical success factors for the region's digital transformation? Especially based on the multi-stage ***Interreg V-A Italy-Austria research project "A21 Digital Tyrol Veneto"*** (secondary research, qualitative study with more than 60 in-depth interviews with leading international and local experts, strategic workshops), Prof Matt and his research team developed - together with the University of Verona and the Tyrolean A21 business network - strategies and a roadmap for decision makers for the digital transformation in the region of Tyrol-Veneto (https://www.a21digital.com/studie/).

The results of this project were the starting point for insights into Industry 4.0 in family businesses in the interdisciplinary research project ***"MASTERMIL - Mastering the digital transformation in the family business: Getting ready for the Millennial generation"***, on which Prof. Matt is working as co-supervisor together with Prof. Alfredo De Massis. The project has provided a toolkit for family businesses for being prepared for the digital transformation.

(Lean) Industry 4.0 and Smart Factory for SMEs

The future way to respond effectively to the new challenges of market dynamics and increasing international competition is to use the potential offered by digitization and to provide production systems that are highly flexible and rapidly reconfigurable, to ensure high production efficiency even in the face of strong variance in demand. To achieve this goal, the Industry 4.0 philosophy places people at the center of the production system and on their ability to react quickly and flexibly to change: digital technologies serve to assist people efficiently.

The overall objective of this research area includes the investigation of methods and technologies for planning, designing and managing cyber-physical production systems for small and medium-sized enterprises. The introduction of Industry 4.0 technologies and systems in SMEs requires intuitive interfaces and simple automation systems and technologies, with a focus on human-machine collaborative workstations. Finally, organizational methods must be developed for the successful introduction of digitization and Industry 4.0 technologies in SMEs. In detail, the following research topics are addressed:

Study of methods, tools and roadmaps for the introduction of Industry 4.0 technologies and concepts in SMEs

The goal is to investigate which of the currently existing or emerging Industry 4.0 technologies are particularly applicable for small and medium-sized enterprises. This topic area was addressed by Prof. Matt and an international research team in the framework of the ***H2020-MSCA-RISE project "SME 4.0: Industry 4.0 for SMEs - Smart Manufacturing and Logistics for SMEs in an X-to-order and Mass Customization Environment"***. As a result, more than **80 scientific papers and 3 edited books for SMEs** have been produced by the consortium.

Digitization in manufacturing and smart manufacturing systems

The goal is to study methods for digitization in manufacturing using advanced computing and simulation systems to create a digital twin of cyber-physical manufacturing systems (e.g., in the research project ***"Smart Shopfloor - "Development of a software prototype for intelligent Shop Floor Management through Industry 4.0 technologies"***).

Intelligent Worker Assistance Systems

A human-centered workplace allows workers to optimize effectiveness and efficiency through appropriate assistance systems. This research includes investigation of the most promising concepts of worker assistance systems by testing and implementing them in the Smart Mini Factory lab. A specific aspect that focuses on social sustainability is the inclusion of older people or people with physical disabilities in a manufacturing environment. This research objective was pursued, for example, in the project ***"ASSIST4WORK - Social sustainability in production through age-appropriate and disability-friendly workplace design using assistance systems"***.

Industry 4.0 applied to the Engineer-to-Order industry and construction

Construction 4.0 refers to the digitization and automation of the construction industry using technologies such as Building Information Modeling (BIM), Additive Manufacturing, Advanced Prefabrication, Industrial Internet of Things, Cloud, Big Data Analytics, Autonomous Robots as well as Virtual, Augmented and Mixed Reality. These new technologies have the potential to increase productivity, quality and safety on construction sites. Prof. Matt started already in 2011 the first research in this area with the collaborative research project *"build4future"*, which has found its continuation in the project ***"COCkPiT - Collaborative Construction Process managemenT - Development of a prototype for the collaborative management of construction-related processes"***.

Engineering Education 4.0

Industry 4.0 is increasing the technical and organizational complexity of industrial processes. This induces an increased demand for skilled personnel at all organizational levels. The resulting increase in the degree of digitization and automation requires a change for engineering education. Prof. Matt has pushed the further development of the Smart Mini Factory lab as a platform for advanced engineering education to students and professionals. These activities were mainly funded through third party funds: ***(1) "Interreg V-A Italy-Austria Engineering Education 4.0: Platform for engineering education in I4.0 technologies", (2) "Erasmus+ KA 2-3, ETAT - Education & Training for Automation 4.0 in Thailand", (3) "Erasmus+ KA 2-3, ICARUS - An Innovative Higher Education Institution Training Toolbox to EffeCtively AddRess the EUropean InduStry 4.0 Skills Gaps and Mismatches"***.

Artificial Intelligence in Manufacturing Systems / Industry 5.0 and the Ecological and Digital Transition

Prof. Matt and his team are exploring how SMEs can adopt digital technologies and a value chain perspective to improve sustainability and competitiveness. Their work includes applications of Artificial Intelligence (AI) and of Digital Twins in manufacturing to optimize resources.

A major contribution to this topic comes from the **Horizon ERC/MSCA research project "SME 5.0 - A Strategic Roadmap Towards the Next Level of Intelligent, Sustainable and Human-Centred SMEs."** In this context, Prof. Matt and his research team have developed—and continue to develop—strategies and a roadmap to help decision-makers in European SMEs achieve a successful ecological and digital transition.

In scientific synergy with the SME 5.0 project but focused on the specific needs of Italian SMEs, the **project I4.0SUST - Industry 4.0 and Sustainability** aims to validate a framework to assess the impact of Industry 4.0 on sustainability and to identify best practices in the metalworking industry, translating them into critical pathways for improving sustainability in Italian companies.

Sustainability also plays a key role in the value chain in the research project **"ONFoods - Research and Innovation Network on food and nutrition Sustainability, Safety and Security"** funded by the Italian National Recovery and Resilience Plan (PNRR). In this project, Prof. Matt and his research group are studying how the use of a digital twin can enhance decision-making and positively impact the food value chain.

A similar scientific objective—this time in the ceramics industry—is being pursued in the **START project - SusTainable dAta-dRiven ManufacTuring**. Here, a Digital Twin (DT), integrated with AI technologies (Machine Learning and Data Processing), is used to simulate the manufacturing process, including equipment, personnel, and workflows.

Axiomatic Design - Manufacturing System Design for Uncertainty and Resilience

Manufacturing systems are complex socio-technical systems that evolve over time, often exceeding their original design scope. Prof. Matt's research advances Axiomatic Design (AD), a leading Systems Engineering theory developed at MIT, with his group among the most active in the field globally.

Research Projects @unibz (last 10 years)

Principal Investigator:

- **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 (**external funding 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 (**external funding for unibz: € 333.000**); **for this project, Prof. Matt has been recognized with the "Best Fund Raising" award at the "Dies Academicus" 2017 at UniBZ.**
- **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 (**external funding 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 (**external funding for unibz: € 180,000**);
- ***SMART SHOPFLOOR*** *- "Development of a software prototype for intelligent Shop Floor Management through Industry 4.0 technologies". Internal funding UniBZ. 2018-2019 (unibz-internal funding: € 70.000);*
- ***ASSIST4WORK*** *- Social sustainability in production through age-appropriate and disability-friendly workplace design using assistance systems. Internal funding UniBZ. 2018-2019 (unibz-internal funding: € 98.000);*

Co-Investigator

- **MIM** - Manufacturing Innovation Management for SME Considering Ambidexterity with Integr. of Virt. and Remote Innovation- and Learning-Factories. JointProjects D-I. Duration: 2025-2027. (**external funding for unibz: € 262.077**);
- **MES4RES** – Meas. Mod. to ass. Resil. of Mfg. comp. PRIN 2022. 2025-2027. (**external funding for unibz: € 69.200**);
- **BOOST AI** - AI as an Accelerator for Industry 5.0 and Green Entrepreneurship for SMEs Early Adoption. Erasmus+ KA 2-3 2021-2027. Duration: 2024-2026. (**external funding for unibz: € 40.095**);
- **EDU-CIRC** - Cross-border network for education and training in the circular economy and decarbonization in production. INTERREG I-A 2021-2027. Duration: 2024-2026. (**external funding for unibz: € 368.424**);
- **EE4M** - Engineering Excellence for the Mobility Value Chain. Erasmus+ KA 2-3 2021-2027. 2023-2027. (**external funding for unibz: € 514.198**);
- **START** - SusTainable dAta-dRiven Mfg. Ministerial Funding. 2023-2026. (**ext. funding for unibz: € 294.875**);
- **I4.0SUST** - Industry 4.0 and Sustainability: opportunities and challenges for Italian firms. PRIN 2022. Duration 2023-2025. (**external funding for unibz: € 59.330**);
- **ETAT** – Educ. & Train. for Autom. 4.0 in Thailand. Erasmus+ KA 2-3; 2020-2023. (**ext. funding for unibz: € 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. (**external funding for unibz: € 61.670**);
- **SMF4INFRA** - SMF for Infrastructure Projects. Joint Projects CH-I; 2022-2024. (**ext. funding for unibz: € 266.403**);
- **DIGPLABI** - DIGital PLAtform for Building and Infrastructure Projects. Contract for research project; 2021-2023. (**external funding for unibz from contract research: € 65.800**);
- **SUSTAINABLE SMES 4.0** - Development of a methodology for the long-term sustainable introduction of Industry 4.0 in SMEs. Province BZ funding (**external funding for unibz: 27.720 €**)
- ***MASTERMIL*** *- Mastering the digital transformation in the family business: Getting ready for the Millennial generation. ID2020 - Internal funding UniBZ. 2020 -2023. (unibz-internal funding: € 173.000);*

Participation:

- **ONFOODS** - Research and Innovation Network on food and nutrition Sustainability, Safety and Security. Ministerial Funding / PNRR. 2022-2025. (**external funding for unibz in total: € 1.675.913,34**, of which **ca. 1 third coordinated by Prof. Matt** in his workpackage)
- **PMA-1** - Digital Twin based kinematic and mechatronic modelling for testing and optimizing the performance and energy efficiency of machines; 2023-2025. (**external funding for unibz from contract research: € 49.820**);
- **COCkPiT** - Collaborative Construction Process managemenT - Development of a prototype for the collaborative management of processes related to construction. ERDF 2014-2020 (**external funding for unibz: € 503.000**);
- ***CONFUCIUS*** *- "Study the past if you would define the future": Discovering Patterns in Scheduling and Monitoring Data. ID2020 - Internal funding UniBZ. 2020 -2023. (unibz-internal funding: € 110.000);*
- ***EYE TRACK*** *- Usability of Eye Tracking for Mfg in SMEs. Int. funding. 2018-2019. (unibz-internal funding: € 63.000);*

Publications (12 most relevant)

No.	Publication	Quartile (SJR)	SJR 2024	Citation Count*
01	BRUNETTI, F.; **MATT, D.T.**; BONFANTI, A.; DE LONGHI, A.; PEDRINI, G.; ORZES, G.: Digital transformation challenges: strategies emerging from a multi-stakeholder approach. TQM Journal, 2020, 32 (4), 697-724. DOI: 10.1108/TQM-12-2019-0309	Q1	0.870	385
02	BROZZI, R.; FORTI, D.; RAUCH, E.; **MATT, D.T.**: The advantages of industry 4.0 applications for sustainability: Results from a sample of manufacturing companies. Sustainability (Special Issue Industry 4.0 for SMEs - Smart Manufacturing and Logistics for SMEs), 2020, 12(9), 3647. DOI: 10.3390/su12093647	Q1	0.688	158
03	RAUCH, E.; DALLASEGA, P.; **MATT, D.T.**: Sustainable production in emerging markets through Distributed Manufacturing Systems (DMS). Journal of Cleaner Production, Vol. 135, 2016, pp. 127-138. DOI: 10.1016/j.jclepro.2016.06.106.	Q1	2.174	124
04	RATAJCZAK J., RIEDL M., **MATT D.T.** (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	Q1	0.652	112
05	**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	Q1	1.913	103
06	**MATT, D.T.**; ORZES, G.; RAUCH, E.; DALLASEGA, P.: Urban Production – a Socially Sustainable Factory Concept to overcome Shortcomings of Qualified Workers in Smart SMEs. Computers and Industrial Engineering, 2020, 139, 105384. DOI: 10.1016/j.cie.2018.08.035	Q1	1.628	98
07	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	Q1	0.688	80
08	PASETTI MONIZZA, G.; BENDETTI, C.; **MATT, D.T.**: Parametric and Generative Design techniques in mass-production environments as effective enablers of Industry 4.0 approaches in the Building Industry. Automation in Construction, 2018, 92, 270-285.	Q1	2.890	71
09	**MATT, D.T.**: 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, 2014, 25(3). DOI: 10.1108/JMTM-05-2012-0054	Q1	1.532	67
10	MARK B.G., HOFMAYER S., RAUCH E., **MATT D.T.** (2019), Inclusion of workers with disabilities in production 4.0: Legal foundations in Europe and potentials through worker assistance systems, Sustainability (Switzerland), 11 (21), art. no. 5978	Q1	0.688	52
11	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	Q1	2.890	52
12	**MATT, D.T.**: Template based production system design. Journal of Manufacturing Technology Management, 2008, 19(7). DOI: 10.1108/17410380810898741	Q1	1.532	36

*taken from Scopus Database

Publications (last 28 years: 1998-2026)

PLEASE NOTE:
For the sake of clarity of the submitted documents, a full listing of all publications that Professor Matt has authored in 28 years of scientific activity is omitted. For a complete overview, please consult the following links:

(Status: 01/2026)

Google Scholar

404 documents, 8980 citations, **h = 49**

Scopus

239 documents, 4698 citations, **h = 37**

Elsevier BV

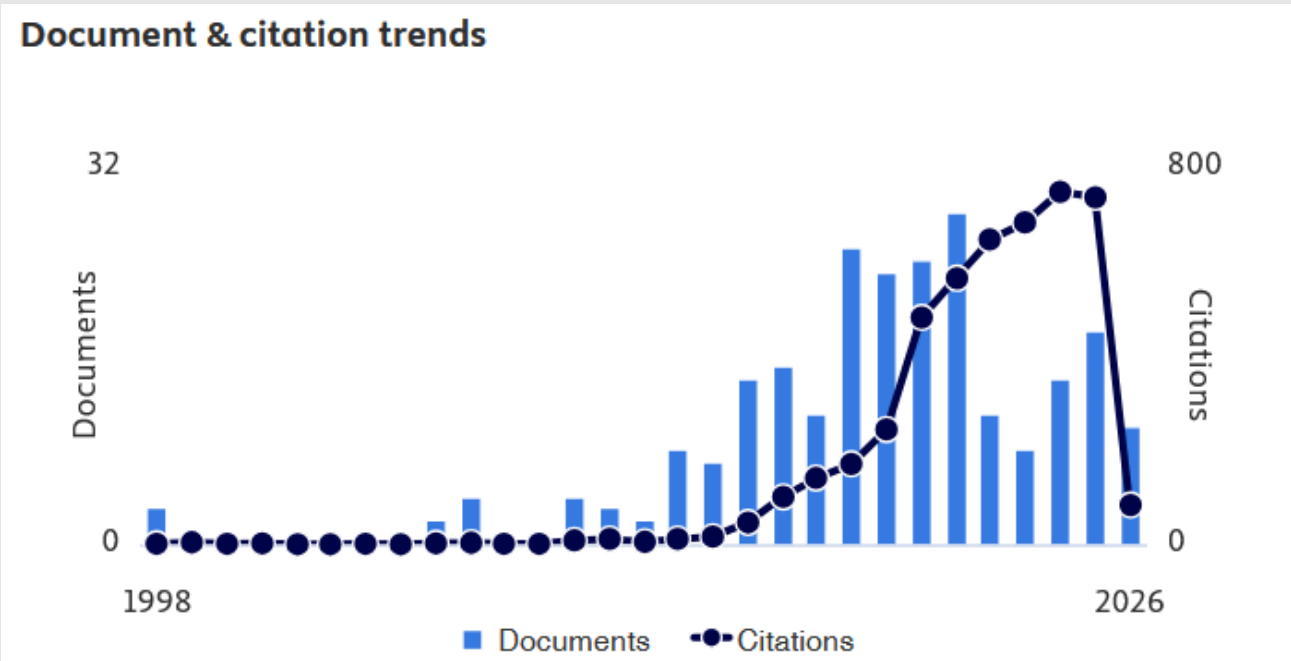
Prof. Matt is **listed among the most cited professors and among the 2% top scientists for long career-impact** in their specific fields.
(elsevier.digitalcommonsdata.com, 08/2025).

Google Scholar:
https://scholar.google.com/citations?user=0_GukYYAAAAJ&hl=de&oi=ao

Scopus:
https://www.scopus.com/authid/detail.uri?authorId=23974953600

Publons:
https://publons.com/researcher/2159606/dominik-t-matt/

ORCID:
https://orcid.org/0000-0002-2365-7529



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)
- 2018: Outstanding Paper Award 2018, IEEE International Conference on Industrial Engineering and Engineering Management for the paper "Advanced Automation for SMEs in the I4.0 Revolution: Engineering Education and Employees Training in the Smart Mini Factory Laboratory"
- 2018: Best Track paper Award (Sustainability in SC Track) 2018 IEOM International Conference on Industrial Engineering and Operations Management for the paper "Sustainable City Logistics through Shared Resource Concepts"

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).
- 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 (last 5 years)

- **Reviewer for the following Journals (excerpt):**
  - 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)
  - Zeitschrift für Wirtschaftlichen Fabrikbetrieb (De Gruyter)
- **Grant Reviewer for:**
  - DFG – Deutsche Forschungsgesellschaft (Federal Republic of Germany)
  - ÖAW – Österreichische Akademie der Wissenschaften (Austria)
  - 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
  - King Fahd University of Petroleum and Minerals, Saudi Arabia
  - Provincia Autonoma di Trento, Comitato ricerca e innovazione
- **Recent Editorial Activities:**
  - Member of the Editorial Board of the Journal of Manufacturing Technology Management
  - Fottner, J., Nübel, K., Matt, D.T., eds. (2024), Construction Logistics, Equipment, and Robotics, Lecture Notes in Civil Engineering (LNCE), Springer, pp. 1-222.
  - Concli, F., Maccioni, L., Vidoni, R., Matt, D.T., eds. (2024), Latest Advancements in Mechanical Engineering, Lecture Notes in Mechanical Engineering, Springer, pp. 1- 284.
  - Borgianni, Y., Matt, D.T., Molinaro, M., Orzes, G., eds. (2023), Towards a Smart, Resilient and Sustainable Industry, Lecture Notes in Networks and Systems, Springer, pp. 1-687.
  - Matt DT, Modrák V, Zsifkovits H, eds (2021) "Implementing Industry 4.0 in SMEs – Concepts, Examples and Applications", Palgrave Macmillan
  - Matt DT, Modrák V, Zsifkovits H, eds (2021), "Industry 4.0 for SMEs - Challenges, Opportunities and Requirements", Palgrave Macmillan

Keynote Speeches and Invited Talks (last 5 years)

2024

- HGJ symposium “Take me to the Year 2035” on 28.11.2024, event organized by HGJ/HGV, Keynote Speaker Prof. Matt, title “Fast forward 2035 - How technological change will change the way we live and work” (Fast forward 2035 - Wie der Technologische Wandel unsere Lebens- und Arbeitswelt verändern wird.)
- Digital Connect, 08.10.2024, Four Points Sheraton; event organized by IDM, Keynote Speaker Prof. Matt, title “AI as an enabler for sustainable value creation in the company” (KI als Enabler für eine nachhaltige Wertschöpfung im Unternehmen)
- Unsere Mission: Das Handwerk – Landesversammlung des Südtiroler Handwerks (“Our Mission: Craftsmanship” - National Assembly of South Tyrolean Craftsmen), 20.04.2024, NOI TechPark, Bolzano, Italia; event organized by lvh/apa; Keynote Speaker Prof. Matt, title “Gamechanger KI: Wie KMU von künstlicher Intelligenz profitieren können; [Gamechanger AI: how SMEs can benefit from artificial intelligence]“

2023

- 1th International Conference on Construction Logistics, Equipment, and Robotics (CLEaR 2023), 09.10-11.10.2023, TUM Akademiezentrum Raitenhaslach, Germany, Keynote Speaker Prof. Matt, title “NextGen Construction Robotics - approaching industrial manufacturing efficiency “
- Internationales Forum Mechatronik 2023 “Intelligent und nachhaltig produzieren”, 28. – 29.09.2023, NOI TechPark Bruneck, Bruneck; Keynote Speaker Prof. Matt, “Twin Transformation: digitale Technologien als Enabler für eine nachhaltige Wertschöpfung im Unternehmen; (language: German)
- Fortschritt durch Digitalisierung - Digitalisierungund KI im Unternehmen umsetzen, 11.10.2023, NOI TechPark, Bolzano, Italia; IDM e hds; Keynote Speaker Prof. Matt, “Gamechanger KI: Wie KMU von künstlicher Intelligenz profitieren können; , (language: German)

2022

- Tag der Innovation 2022, 06.10.2022, Bolzano, Italy, Keynote Speech, Title: “KMUs im Spannungsfeld zwischen digitaler Transformation und gesellschaftlichem Wandel“, (language: German)
- Meran im Gespräch: Digitaler Wandel für ein resilientes Meran der Zukunft, 20.10.2022, Meran, Italy, Keynote Speech, Title „Society 5.0 wie Gesellschaft, Wirtschaft und Umwelt vom digitalen Wandel profitieren können“, (language: German)

2021

- The 1st online and 14th International Conference on Axiomatic Design (ICAD2021), 23-25.06.2021, Lisbon, Portugal, Keynote Speech, Title: “Biological Transformation for the Design of Resilient and Sustainable Factories of the Future“, (language: English)
- The 4th European Conference on Industrial Engineering and Operations Management (IEOM2021), 02-05.08.2021, Roma, Italia, Keynote Speech, Title: “Biological Transformation in Manufacturing and Logistics“, (language: English)
- Forum Bau-Bioökonomie, 21.09.2021, Biberach, Germania, Keynote Speech, Title: “Künstliche Intelligenz als Impulsgeber für einen nachhaltigen Bausektor”, (language: German)

2020

- International Klimahouse Congress, 23/01/2020, Bolzano, Organizer: Fiera di Bolzano, Keynote Speech, Title: “Künstliche Intelligenz als Impulsgeber für einen nachhaltigen Bausektor - Ziele – Potenziale - Anwendungen”; (language: German)
- LVH/APA Convegno (online) “Wie verändert Digitalisierung die Berufsbildung im Handwerk?”, 24.09.2020, Bolzano, Organizer: LVH/APA, Invited Talk, Title: „Handwerk im digitalen Wandel - Herausforderungen und Chancen“, (language: German)

Third Mission Activities (last 5 years)

- Contribution by Prof. Dominik T. Matt to the Eisacktaler Wirtschaftsschau, 03.05.2024 “Gamechanger KI: wie unsere Betriebe von künstlicher Intelligenz profitieren können”
- Contribution by Prof. Dominik T. Matt to the strategic retreat of lvh/apa, 30.08.2024 “Digitale Transformation und KI: Perspektiven und Gestaltungsoptionen für das Handwerk in Südtirol”
- Participation of Prof. Matt as a scientific expert at the round table "Entwicklungspotenziale des Vinschgaus – Wos welln mir?", event organized by KIWANIS Club Vinschgau on 02.02.2023 at BASIS Vinschgau
- "Industry 4.0: what’s next – a glimpse into the future", Presentation by Prof. Matt at the International Week "Industry 4.0: Technologies and Management", 17.02.2023
- Interview with Prof. Dominik T. Matt in the SWZ Südtiroler Wirtschaftszeitung, 09.06.2023 "KI im Unternehmen: Hallo. Wie kann ich helfen?"
- Interview with Prof. Dominik T. Matt in the SWZ Südtiroler Wirtschaftszeitung, 25.08.2023 "Studie: Werden KIs dümmer?"
- "Twin Transition & Society 5.0: How Society, Economy, and Environment Could Equally Benefit from Digital Transformation", Presentation by Prof. Matt for high school students as part of the "RYLA Junior Programme" of the ROTARY Club in Bressanone (Kloster Neustift), 11.09.2023.
- "Twin Transition & Society 5.0: How Society, Economy, and Environment Could Equally Benefit from Digital Transformation (could)", Presentation by Prof. Matt for teachers of the high school "Max Valier" as part of the "Giornata Pedagogica", 11.09.2023.
- Contribution of Prof. Dominik T. Matt in the SWZ Südtiroler Wirtschaftszeitung, 27.09.2023 "Vom Taschenrechner zu ChatGPT: Die Geschichte von KI"
- Contribution of Prof. Dominik T. Matt in the SWZ Südtiroler Wirtschaftszeitung, 13.10.2023 "KI: Wie lernen eigentlich Maschinen?"
- Interview with Prof. Dominik T. Matt on television, RAI Alto Adige, 14.11.2023; (http://raisudtirol.rai.it/de/index.php?media=Ptv1699994400)
- Participation as a scientific expert in the panel discussion "Digitization and Sustainability in Manufacturing" on 19.05.2022 at NOI TechPark
- „Industry 4.0: what’s next – a glimpse into the future “, Presentation of Prof. Matt at the International Week "Industry 4.0: Technologies and Management", 14.03.2022
- “Pandemieschub für Industrie 4.0”, unibz insight Podcast, 13.10.2021
- „Industry 4.0: what’s next – a glimpse into the future “, presentation of Prof. Matt at the International Week "Industry 4.0: Technologies and Management", 08.03.2021
- “Künstliche Intelligenz: der Game Changer, der unsere Welt verändert” (Artificial intelligence: the game changer that is changing our world), presentation of Prof. Matt for high-school students, 09.03.2021
- “Forschungsergebnisse zum Erleben und Anfassen” (Research results to experience and touch), NOI Magazine / Top Stories, 18.11.2021 (https://noi.bz.it/de/magazine/forschungsergebnisse-zum-erleben-und-anfassen)
- Coordination and teaching under the initiative for high schools "UniMeetsSchool" in 2019/20, 2020/21 and 2021/22. Worth mentioning: on 26.01.2021, a virtual ceremony was held for the first time with the presentation of certificates of participation for the popular lecture series "UniMeetsSchool" for high school students.
- „Industry 4.0: what’s next – a glimpse into the future “, presentation of Prof. Matt at the International Week "Industry 4.0: Technologies and Management", 14.03.2022
- Dominik Matt on the Interreg-project ‘A21Digital Tyrol Veneto', NOI Magazine, 26.09.2019
- Participation in public events: long night of research LUNA 2019, 27.09.2019
- Interview with Dominik T. Matt in LUNA 2019, Rai Alto Adige, 29.09.2019
- Visit of high school students in the "Uni-meets-School" course in the Smart Mini Factory Lab, 27.11.2019
- „Digitale Denkanstöße mit Dominik Matt“ (Digital food for thought with Dominik Matt), Talent Day: Prof. Dominik Matt presented the results of the A21DIGITAL TYROL VENETO digitization study in Lienz, 01.12.2019
- Presentation of the laboratory "Smart Mini Factory", Fraunhofer Italia and the NOI Techpark to a delegation from Chiang Mai University and Bangkok Science Park (21.06.2019).
- Presentation of the intermediate results of the research on assistance systems in "Assist4Work" to various stakeholders (lvh/apa, gwb, Independent L) on 21.06.2019
- Kick-off for collaboration with the Association of Craftsmen (lvh-apa) as part of the "digitization" training offered by lvh-apa together with Salisburo University (12.06.2019)
- Participation in the SEM - Sea E-Mobility meeting at the invitation of the NOI TechPark group (J. Brunner) on 05.06.2019