

CURRICULUM VITAE MARCO SORTINO – UPD. 10/04/2023

1. General information

Marco Sortino

Born in Udine (UD), Italy

Resident in Udine

CF: SRTMRC74C08L483P

2. Main facts and positions

2.1 Education

1999 Degree in Management Engineering at the University of Udine

2003 PhD in Industrial and Information Engineering at the University of Udine

2.2 Job positions

2004-2018: Permanent position of full-time University Researcher of Manufacturing Systems and Technology at the University of Udine

2018-today: Associate Professor of Manufacturing Systems and Technology at the University of Udine

2023-today: full professor national qualification for the sector 09/B1 – Manufacturing Systems and Technology

2.3 Other relevant positions

2009- today: Head of the ING-IND/16 sector of the University of Udine

2009-2016: Chairman of the Technical-Scientific Committee of the Keymec research and technology transfer center for precision mechanics, located in San Vito al Tagliamento (PN) and member of the Board of Directors

2011-2023: National coordinator of the Machining Section of the Italian Association of Manufacturing Technologies

2014-2015: Delegate of the Rector of the University of Udine for relations with companies

2015-2019: Delegate of the Rector of the University of Udine for technical training – ITS and delegate for participation in the Steering Committee of the Malignani ITS and Kennedy ITS Foundations

2016- today: Scientific Director of the Advanced Mechatronics Laboratory - LAMA FVG

2017-2019: Alternate member of the Board of Directors of the Italian Association of Manufacturing Technologies

2019-today: Contact person of the Rector of the University of Udine for technical training - ITS

2019-2021: Full member of the Board of Directors of the Italian Association of Manufacturing Technologies

2021-2023: Full member and Secretary of the Board of Directors of the Italian Association of Manufacturing Technologies

3. Research activities

3.1 Main research projects

- 2002–2004: Inter-university project of Relevant National Interest of the Italian Ministry of University and Research, PRIN2002 – "Intelligent systems for the supervision of the condition of the tool in milling", participant.
- 2002–2004: Research project of the Friuli Region – Venezia Giulia, 2002: New methodologies for increasing the productivity of machine tools, participant.
- 2005–2007: Inter-university project of Relevant National Interest of the Italian Ministry of University and Research, PRIN2005 "Advanced Sensory Monitoring Techniques in Intelligent Machining Systems (ASMIM)", participant.
- 2005–2007: International research project funded by the Ministry of Science, Education and Sports of Croatia, 2005 - "Investigation of high productivity machining on intelligent machining systems", participant.
- 2009-2011: "ThermoGrind - Thermally Controlled Rotational Grinding of Sapphire Wafers for Highly Efficient Manufacturing of Modern White LED Light Sources" – EU FP7 Capacities, Research for SMEs project – Scientific Director of the Unit of Udine
- 2012-2015: "SHARTEC - Shared innovative production technologies in the border regions" – INTERREG Italy-Slovenia – Scientific Director of the Unit of Udine

3.2 Participation in international conferences as a speaker

- 39th CIRP International Seminar on Manufacturing Systems, 2006, Ljubljana, Slovenia
- CIM2009, 2009, Biograd, Croazia
- CIRP, 2010, Pisa, Italia
- ASMET, 2022, Salzburg, Austria, Keynote speaker

3.3 Bibliometric indicators

Updated bibliometric indicators:

Table 1 – ASN Indicators

	Number of items 10 years	Number of citations 15 years	H index 15 years
Current values	<u>29</u>	<u>974</u>	<u>16</u>
Full professor thresholds	17	270	9
	SI	SI	SI
ASN Commissioner thresholds	22	485	13
	SI	SI	SI

Eligible for the role of ASN Commissioner for sector 09/B1.

3.3 VQR Ratings

VQR rating 2004-2010: 3 products, all EXCELLENT, score 3.0/3.0

Rating VQR 2011-2014: 5 products, 4 EXCELLENT, 1 FAIR, score 4.4/5.0

VQR rating 2015-2019: 4 products, 2 EXCELLENT AND EXTREMELY RELEVANT, 1 EXCELLENT, 1 STANDARD

4. Teaching

4.1 Teaching UNIUD

- 2004–2007: Mechanical Technology, II module, Pordenone campus, Bachelor's degree in Mechanical Engineering
- 2005–2007: Mechanical Technology, I module, Pordenone campus, Bachelor's degree in Mechanical Engineering
- 2005–2009: Mechanical Technology III, Udine campus, Master's degree in Mechanical Engineering
- 2006–2009: Mechanical Technology, II module, Udine campus, Bachelor's degree in Mechanical Engineering
- 2006–2011: Advanced production systems, Pordenone campus, Master's degree in Industrial Innovation Engineering
- 2007– today: Mechanical Technology, I module, Udine campus, Bachelor's degree in Mechanical Engineering and Management Engineering
- 2009–2017: Innovative Technologies of Mechanical Production, Udine campus, Master's Degree in Mechanical Engineering
- 2018–today: Advanced Manufacturing Technologies, Udine campus, Master's degree in Management Engineering
- 2010- today: Teaching of the PhD in Industrial and Information Engineering and coordination Module 3

Supervisor of over 240 bachelor's and master's degree theses and tutor of 9 PhDs.

4.2 Teaching activity at other national and international locations

Invited lecturer for seminars to students and PhD students at various Italian and foreign locations, including: TU Graz, Austria; RITEH, Rijeka, Croatia; RWTH, Aachen, Germany.

5. Technology transfer

5.1 Activities for third parties

- 2005-today: Scientific manager of more than 100 expensive research and development projects in collaboration with companies. Total amount of the activity: 1.267.000,00 Euro

5.2 Participation in technological dissemination projects

- 2015-today: MECHATRONICS FVG project for the creation of a joint laboratory between the FVG Universities aimed at technology transfer: scientific director of the LAMA FVG Advanced Mechatronics Laboratory
- 2019-today: Participation on UNIUD's recommendation in the activities of the SMOCT Competence Center
- 2022-today: Responsible for the Research Topic "Smart Manufacturing, Mechatronics and Robotics" of Spoke 3 (UNIUD) of the PNRR Project of Interconnected Ecosystem of the Nord-Est iNEST.

5.3 Organization of events and technical seminars

Organizer of the following international conferences:

- Lean Manufacturing, Udine, November 2013
- PLM and Virtual Manufacturing, Udine, March 2014.
- Robotics&Automation, Udine, May 2014.
- Innovative Cutting Tools, Udine, November 2014.
- Factory of the Future-Industry 4.0, Udine, Italy, 2015.

5.4 Participation in the creation of innovative enterprises

- 2014-2017: Founding partner and technical manager of the Manufacturing division of "Advantech-Time", academic spin-off of the University of Udine
- 2022-today: Founding partner and sole director of "DYNEXT Srl", innovative start-up of the University of Udine

6. Other activities

6.1 Organizational activities

- 2002-2011: Secretary General of the international conference "International Conference on Advanced Manufacturing Systems and Technology – AMST", editions 2002, 2005, 2008 and 2011
- 2005-today: member of the Student Practices Commission of the Council of Studies in Mechanical Engineering, Faculty of Engineering, University of Udine
- 2013-2016: c coordinator of the courses of Active Training Internship (TFA) and Special Enabling Paths (PAS) for the sector A020 – Mechanical and related disciplines of the University of Udine

6.2 International activities

- 2014-oggi: Coordinator of the Erasmus+ program with the Friedrich Alexander Universitaet –Nurnberg of Erlangen, Germany, for the courses of Mechanical Engineering
- 2018-2021: Member of the International Scientific Board of the SmartFactory of the University of Graz, Austria.
- 2019- today: member of the Scientific Committee of the 10, 11 and 12 Conference on Learning Factories - Institute of Innovation and Industrial Management of TU Graz, Austria.
- 2019-today: Coordinator of bilateral collaboration relations between the University of Udine and Joanneun Research, Austria
- 2019-today: Coordinator of bilateral collaboration relations between the University of Udine and the University of Rijeka, Croatia

6.3 Collaboration with national and international magazines

- 2019-today: Member of the International Editorial Board of the SV-JME Journal of Mechanical Engineering ISSN 0039-2480, ISSN 2536-2948 (online). Indexed in WOS, SCOPUS, and many other databases.
- 2019-today: Member of the editorial board of the national magazine "Utensili e attrezzature "- Gruppo Tecniche Nuove. The magazine is the technical reference in Italy for cutting tools and production equipment, including pallet and tool holder systems.
- 2022-today: Associated editor of the international journal Springer "Journal of Intelligent Manufacturing", edited by Andrew A. Kusiak - Impact factor 2021 of 7,136, SJR Q1 in Industrial and Manufacturing Engineering
- 2004-today: Revision activities for numerous international scientific journals, such as: Elsevier: Computer-Aided Design; Elsevier: International Journal of Machine Tools and Manufacture; Elsevier: Journal of Sound and Vibration; Elsevier: Measurement; Elsevier: Journal of Materials Processing Technology; Elsevier: Robotics and Computer Integrated Manufacturing; Elsevier: Mechanical Systems and Signal Processing; Elsevier: Precision Engineering; Part C: Journal of Mechanical Engineering Science; Strojnicki vestnik - Journal of Mechanical Engineering

6.4 Honors and awards

- 2009 Winner of the AiTeM Award for Innovation in Education for the original software "TurnSimulator".

7. Publications

7.1 Scientific publications in indexed international journals

- [A1] M. Sortino, Application of Statistical Filtering for Optical Detection of Tool Wear, International Journal of Machine Tools and Manufacture, 2003, Vol. 43/5, 493-497, DOI: 10.1016/S0890-6955(02)00266-3
- [A2] E. Kuljanic, M. Sortino, TWEM – A Method Based on Cutting Forces – Monitoring Tool Wear in Face Milling, International Journal of Machine Tools and Manufacture, 2005, Vol. 45/1, 29-34, DOI: 10.1016/j.ijmachtools.2004.06.016
- [A3] E. Kuljanic, M. Sortino, G. Totis, Multisensor Approaches for Chatter Detection in Milling, Journal of Sound and Vibration, Vol. 312, Issue: 4-5, 672-693, May 20, 2008, DOI: 10.1016/j.jsv.2007.11.006
- [A4] E. Kuljanic, G. Totis, M. Sortino, Development of an Intelligent Multisensor Chatter Detection in Milling, Mechanical Systems and Signal Processing, Volume 23, Issue 5, July 2009, 1704-1718, DOI: 10.1016/j.ymsp.2009.01.003
- [A5] G. Totis, G. Wirtz, M. Sortino, D. Veselovac, E. Kuljanic, F. Klocke, Development of a Dynamometer for Measuring Individual Cutting Edge Forces in Face Milling, Mechanical Systems and Signal Processing, Volume 24, Issue 6, August 2010, Pages 1844-1857, DOI: 10.1016/j.ymsp.2010.02.010
- [A6] G. Totis, M. Sortino, Development of a modular dynamometer for triaxial cutting force measurement in turning, International Journal of Machine Tools and Manufacture, Volume 51, Issue 1, January 2011, 34-42, DOI: 10.1016/j.ijmachtools.2010.10.001
- [A7] M. Sortino, G. Totis, F. Prosperi, Development of a practical model for selection of stable tooling system configurations in internal turning, International Journal of Machine Tools and Manufacture, Volume 61, Issue 1, 2012, 58-70, DOI: 10.1016/j.ijmachtools.2012.05.010
- [A8] M. Sortino, G. Totis, F. Prosperi, Modelling the dynamic properties of conventional and high-damping boring bars, Mechanical Systems and Signal Processing, Vol. 34, Issue 1-2, 2013, 340-352, DOI: 10.1016/j.ymsp.2012.05.016
- [A9] M. Sortino, G. Totis, F. Prosperi, Dry turning of sintered molybdenum, Journal of Materials Processing Technology, Journal of Materials Processing Technology, Vol. 213/7, 2013, 1179-1190, DOI: 10.1016/j.jmatprotec.2013.01.017
- [A10] M. Sortino, B. Motyl, G. Totis, Preventive evaluation of mould production cost in aluminium casting, International Journal of Advanced Manufacturing Technology 2013, Article in Press, DOI: 10.1007/s00170-013-5273-6
- [A11] G. Totis, P. Albertelli, M. Sortino, M. Monno, Efficient Evaluation of Process Stability in Milling with Spindle Speed Variation by Using the Chebyshev Collocation Method, Journal of Sound and Vibration, Elsevier, Accepted for Publication

- [A12] G. Totis, M. Sortino, Robust Analysis of Stability in Internal Turning, DAAAM 2013, Procedia Engineering, 2014, Accepted for Publication
- [A13] M. Sortino, G. Totis, E. Kuljanic, Comparison of Injection Molding Technologies for the Production of Micro-Optical Devices, DAAAM 2013, Procedia Engineering, 2014, Accepted for Publication
- [A14] M. Sortino, S. Belfio, B. Motyl, G. Totis, Compensation of Geometrical Errors of CAM/CNC Machined Parts by Means of 3D Workpiece Model Adaptation, CAD, Elsevier,
- [A15] M. Sortino, S. Belfio, G. Totis, An Innovative Approach for Automatic Generation, Verification and Optimization of Complex Part Programs in Turning, JOURNAL OF MANUFACTURING SYSTEMS, vol. 36, p. 168-181, ISSN: 0278-6125, doi: 10.1016/j.jmsy.2014.03.002
- [A16] G. Totis, O. Adams, M. Sortino, D. Veselovac, F. Klocke, Development of an Innovative Plate Dynamometer for Advanced Milling and Drilling Applications, In: Measurement: Journal of the International Measurement Confederation, 49.1 (2014). pp. 164–181. doi: 10.1016/j.measurement.2013.11.049.
- [A17] S. Seriani, A. Cortellessa, S. Belfio, M. Sortino, G. Totis, P. Gallina, Automatic path-planning algorithm for realistic decorative robotic painting, Automation in Construction, 56/2015, 67-75, 10.1016/j.autcon.2015.04.016
- [A18] M. Sortino, S. Belfio, G. Totis, L. Di Gaspero, M. Nali, An investigation on swarm intelligence methods for the optimization of complex part programs in CNC turning, International Journal of Advanced Manufacturing Technology, 80, 2015, 657-672, 10.1007/s00170-015-7011-8
- [A19] M. Sortino, S. Belfio, G. Totis, E. Kuljanic, G. Fadelli, Innovative tool coatings for increasing tool life in milling Nickel-coated Nickel-Silver alloy, Energy Procedia, 100, 2015, 946-952, 10.1016/j.proeng.2015.01.453
- [A20] G. Totis, P. Albertelli, M. Torta, M. Sortino, M. Monno, Upgraded stability analysis of milling operations by means of advanced modeling of tooling system bending, International Journal of Machine Tools and Manufacture, 113, 2017, 19-34, 10.1016/j.ijmachtools.2016.11.005
- [A21] G. Totis, T. Insperger, M. Sortino, G. Stépán, (2019). Symmetry breaking in milling dynamics. INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol. 139, p. 37-59, ISSN: 0890-6955, doi: 10.1016/j.ijmachtools.2019.01.002
- [A22] F. Andreatta, A. Lanzutti, E. Vaglio, G. Totis, M. Sortino, L. Fedrizzi, (2019). Corrosion behaviour of 316L stainless steel manufactured by selective laser melting. MATERIALS AND CORROSION, ISSN: 0947-5117, doi: 10.1002/maco.201910792
- [A23] G. Totis, M. Sortino, (2020). Polynomial Chaos-Kriging approaches for an efficient probabilistic chatter prediction in milling. INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol. 157, ISSN: 0890- 6955, doi: 10.1016/j.ijmachtools.2020.103610

- [A24] A. Lanzutti, E. Marin, K. Tamura, T. Morita, M. Magnan, E. Vaglio, F. Andreatta, M. Sortino, G. Totis, L. Fedrizzi, (2020). High temperature study of the evolution of the tribolayer in additively manufactured AISI 316L steel. *ADDITIVE MANUFACTURING*, vol. 34, ISSN: 2214-8604, doi: 10.1016/j.addma.2020.101258
- [A25] G. Totis, Z. Dombovari, M. Sortino, (2020). Upgraded Kalman filtering of cutting forces in milling. *SENSORS*, vol. 20, p. 1-21, ISSN: 1424-8220, doi: 10.3390/s20185397
- [A26] F. Scalzo, G. Totis, E. Vaglio, M. Sortino, (2020). Passive chatter suppression of thin-walled parts by means of high-damping lattice structures obtained from selective laser melting. *JOURNAL OF MANUFACTURING AND MATERIALS PROCESSING*, vol. 4, ISSN: 2504-4494, doi: 10.3390/jmmp4040117
- [A27] F. Scalzo, G. Totis, E. Vaglio, M. Sortino, (2021). Experimental study on the high-damping properties of metallic lattice structures obtained from SLM. *PRECISION ENGINEERING*, vol. 71, p. 63-77, ISSN: 0141-6359, doi: 10.1016/j.precisioneng.2021.02.010
- [A28] H.M.A. Abdalla, D. Casagrande, F. De Bona, T. De Monte, M. Sortino, G. Totis (2021). An optimized pressure vessel obtained by metal additive manufacturing: Preliminary results. *INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING*, ISSN: 0308-0161, doi: 10.1016/j.ijpvp.2021.104434
- [A29] A. Tel, A. Bordon, M. Sortino, G. Totis, L. Fedrizzi, E. Ocello, S. Sembronio, M. Robiony (2021). Current trends in the development and use of personalized implants: Engineering concepts and regulation perspectives for the contemporary oral and maxillofacial surgeon. *APPLIED SCIENCES*, vol. 11, ISSN: 2076- 3417, doi: 10.3390/app112411694
- [A30] M. Pelegatti, D. Benasciutti, F. De Bona, A. Lanzutti, M. Magnan, J. Srnec Novak, E. Salvati, F. Sordetti, M. Sortino, G. Totis, E. Vaglio (2022). On the factors influencing the elastoplastic cyclic response and low cycle fatigue failure of AISI 316L steel produced by laser-powder bed fusion. *INTERNATIONAL JOURNAL OF FATIGUE*, vol. 165, ISSN: 0142-1123, doi: 10.1016/j.ijfatigue.2022.107224
- [A31] A. Tognan, L. Sandnes, G. Totis, M. Sortino, F. Berto, O. Grong, E. Salvati, (2022). Evaluation and Origin of Residual Stress in Hybrid Metal and Extrusion Bonding and Comparison with Friction Stir Welding. *INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES*, vol. 218, ISSN: 0020-7403, doi: 10.1016/j.ijmecsci.2022.107089
- [A32] A. Lorenzon, E. Vaglio, L. Casarsa, M. Sortino, G. Totis, G. Sarago, E. Lendormy, J. Raukola (2022). Heat transfer and pressure loss performances for additively manufactured pin fin arrays in annular channels. *APPLIED THERMAL ENGINEERING*, vol. 202, ISSN: 1359-4311, doi: 10.1016/j.applthermaleng.2021.117851
- [A33] G. Totis, M. Sortino, (2022). Upgraded Regularized Deconvolution of complex dynamometer dynamics for an improved correction of cutting forces in milling. *MECHANICAL SYSTEMS AND SIGNAL PROCESSING*, vol. 166, ISSN: 0888-3270, doi: 10.1016/j.ymsp.2021.108412

- [A34] F. Andreatta, A. Lanzutti, R. Revilla, E. Vaglio, G. Totis, M. Sortino, I. de Graeve, and L. Fedrizzi. "Effect of Thermal Treatment on Corrosion Behavior of AISI 316L Stainless Steel Manufactured by Laser Powder Bed Fusion". In: *Materials* 15.19 (2022). doi: 10.3390/ma15196768.
- [A35] G. Totis and M. Sortino. "Superior optimal inverse filtering of cutting forces in milling of thin-walled components". In: *Measurement: Journal of the International Measurement Confederation* 206 (2023). doi: 10.1016/j.measurement.2022.112227
- [A36] F. Scalzo, G. Totis, and M. Sortino. "Influence of the Experimental Setup on the Damping Properties of SLM Lattice Structures". In: *Experimental Mechanics* 63.1 (2023). pp. 15–28. doi: 10.1007/s11340-022-00898-8.
- [A37] A. Lorenzon, E. Vaglio, L. Casarsa, and M. Sortino. "Experimental investigation of heat transfer and pressure losses across staggered Body Centered cubic arrays fabricated by Laser Powder Bed Fusion". In: *Applied Thermal Engineering* 227 (2023). doi: 10.1016/j.applthermaleng.2023.120381.
- [A38] A. Lanzutti, F. Sordetti, R. Montanari, A. Varone, E. Marin, F. Andreatta, S. Maschio, E. Furlani, M. Magnan, E. Vaglio, E. Pakhomova, M. Sortino, G. Totis, and L. Fedrizzi. "Effect of powder recycling on inclusion content and distribution in AISI 316L produced by L-PBF technique". In: *Journal of Materials Research and Technology* 23 (2023). pp. 3638–3650. doi: 10.1016/j.jmrt.2023.02.017.
- [A39] A. Lanzutti, F. Andreatta, E. Vaglio, M. Sortino, G. Totis, and L. Fedrizzi. "Effects of post-printing heat treatment on microstructure, corrosion and wet wear behavior of CoCrW alloy produced by L-PBF process". In: *Progress in Additive Manufacturing* (2023). doi: 10.1007/s40964 - 023 - 00414 – x

7.2 Scientific publications at international conferences

- [B1] E. Kuljanic, M. Sortino, F. Miani, Disassembly Operation Cost-Estimating Model Concept, CIM2000, 2000, V/1-8, Lumbarda (HR)
- [B2] F. Miani, E. Kuljanic, M. Sortino, Modelling the Mechanical Properties of Direct Metal Selectively Laser Sintered Parts, Proceedings 3rd Laser Assisted Net Shape Engineering, M. Geiger, A. Otto eds. , 2001, 383-391, Erlangen, Germany
- [B3] E. Kuljanic, M. Sortino, F. Miani, MDPE – A Method for Disassembly Process Evaluation, CIM2001, 2001, V/1-10, Lumbarda (HR)
- [B4] E. Kuljanic, M. Sortino, Recent Developments and Trend in Tool Condition Monitoring, 6th International Conference on Advanced Manufacturing Systems and Technology - AMST'02, CISM Courses and Lectures, Vol. 437, 2002, 15-35, Springer Wien New York
- [B5] E. Kuljanic, M. Sortino, F. Miani, Application of a Rotating Dynamometer for Cutting Force Measurement in Milling, 6th International Conference on Advanced

Manufacturing Systems and Technology - AMST'02, CISM Courses and Lectures, Vol. 437, 2002, 159-166, Springer Wien New York

- [B6] D.E. Dimla, M. Sortino, A New Approach to the Use of Vibration Signals in Tool-Wear Monitoring in High Speed Metal Turning, 6th International Conference on Advanced Manufacturing Systems and Technology - AMST'02, CISM Courses and Lectures, Vol. 437, 2002, 593-600 , Springer Wien New York
- [B7] E. Kuljanic, M. Sortino, G. Cukor, Statistical Analysis of the Rotating Dynamometer Signals in Face Milling, CIM2003, 2003, Lumbarda (HR)
- [B8] E. Kuljanic, M. Sortino, Dynamic Characteristics of the Cutting Force Measuring System in Milling, Intelligent Computation in Manufacturing Engineering, CIRP-ICME'04, 2004, 425-430, Sorrento, Italy
- [B9] E. Kuljanic, M. Sortino, Some Approaches in the Machining Research, 7th International Conference on Advanced Manufacturing Systems and Technology - AMST'05, CISM Courses and Lectures, Vol. 486, 2005, 41-56, Springer Wien New York
- [B10] E. Kuljanic, M. Sortino, G. Totis, Application of Wavelet Transform of Acoustic Emission Signal for Tool Condition Monitoring in Face Milling, 39th CIRP International Seminar on Manufacturing Systems, 2006, 39-44, Ljubljana, Slovenia
- [B11] E. Kuljanic, G. Cukor, M. Sortino, G. Totis, Modelling of Cutting Forces in Milling by Using Evolutionary Algorithms, CIM2007, 2007, Biograd (HR)
- [B12] E. Kuljanic, G. Totis, M. Sortino, Vibrations and Chatter in Machining: State of the Art and New Approaches, 8th International Conference on Advanced Manufacturing Systems and Technology - AMST'08, CISM, Udine, 2008, 15-36
- [B13] E. Kuljanic, M. Sortino, G. Totis, Influence of Cutter Position on Cutting Forces and Tool Life in Face Milling, 8th International Conference on Advanced Manufacturing Systems and Technology - AMST'08, CISM, Udine, 2008, 169-180
- [B14] E. Kuljanic, S. Sinesi, M. Sortino, G. Cattelan, G. Totis, Micromachining of Molds for Manufacturing Optical Devices, 8th International Conference on Advanced Manufacturing Systems and Technology - AMST'08, CISM, Udine, 2008, 393-404
- [B15] F.Klocke, E. Kuljanic, D. Veselovac, M. Sortino, G. Wirtz, G. Totis, Development of an Intelligent Cutter for Face Milling, 8th International Conference on Advanced Manufacturing Systems and Technology - AMST'08, CISM, Udine, 2008, 267-280
- [B16] M. Sortino, G. Totis, E. Kuljanic, G. Cukor, Simulation of Cutting Forces and Cutting Conditions in Complex Turning Operations, CIM2009, 2009, Biograd (HR)
- [B17] E. Kuljanic, M. Sortino, G. Totis, Machinability of Difficult Machining Materials, 14th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" - TMT 2010, Keynote paper

- [B18] E. Kuljanic, M. Sortino, G. Totis, M.Nali, Optimization of Machining Processes: Past - Present - Future, 9th International Conference on Advanced Manufacturing Systems and Technology - AMST'11, RITEH, Rijeka, 2011, 1-24
- [B19] G. Totis, M. Sortino, E., Kuljanic, F. Prosperi, Identification of Machining System Dynamics in Internal Turning, 9th International Conference on Advanced Manufacturing Systems and Technology - AMST'11, RITEH, Rijeka, 2011, 225-236
- [B20] M. Sortino, S. Belfio, G. Totis, E. Kuljanic, An Innovative Vision System for Automatic Tool Wear Classification, 9th International Conference on Advanced Manufacturing Systems and Technology - AMST'11, RITEH, Rijeka, 2011, 283-294
- [B21] F. Klocke, E. Kuljanic, O. Dambon, M. Sortino, M. Herben, G. Totis, IR-Based Temperature Measurement in Rotational Grinding of Sapphire Wafers, 9th International Conference on Advanced Manufacturing Systems and Technology - AMST'11, RITEH, Rijeka, 2011, 623-634
- [B22] E. Kuljanic, M. Sortino, G. Totis, F. Prosperi, Evaluation of commercial tools for machining special-alloy Hadfield steel, Machines, Technologies, Materials, Sofia, Bulgaria, 2012, vol. 7, 96-99
- [B23] F. Klocke, O. Dambon, M. Herben, D. Veselovac, O. Adams, E. Kuljanic, M. Sortino, G. Totis, Chuck System for Integrated IR-Based Temperature Measurement in Rotational Grinding of Sapphire Wafers, Euspen 2012, Stockholm, 2012, 332-335
- [B24] Totis, Giovanni, Insperger, Tamas, Stepan, Gabor, Sortino, Marco (2018). Stability analysis in milling by taking into account the influence of forced vibrations on the actual tool-workpiece engagement conditions. In: Procedia CIRP. PROCEEDIA CIRP, vol. 77, p. 453-456, Elsevier B.V., ISSN: 2212-8271, hun, 2018, doi: 10.1016/j.procir.2018.08.276
- [B25] Sortino, M., Totis, G., Scalzo, F., Vaglio, E. (2019). Preliminary investigation of static and dynamic properties of SLM lattice structures for robotic applications. In: Mechanisms and Machine Science. MECHANISMS AND MACHINE SCIENCE, vol. 66, p. 260-267, Springer Netherlands, ISBN: 978-3-030-00364- 7, ISSN: 2211-0984, doi: 10.1007/978-3-030-00365-4_31
- [B26] D. Marzullo, B. Motyl, E. Vaglio, S. Filippi, F. Scalzo, G. Totis, M. Sortino, V. Imbriani, G. Mazzone, and J.-H. You. "Experiences of Additive Manufacturing for Nuclear Fusion Applications: The Case of the Wishbone of the Divertor of DEMO Project". In: Lecture Notes in Mechanical Engineering (2023). pp. 1030–1041. doi: 10.1007/978- 3- 031-15928- 2_90.

7.3 Scientific publications at conferences

- [C1] E. Kuljanic, M. Sortino, A New Method for Tool Engagement Estimation in Machining, VI Convegno AITeM, 2003, Gaeta, Italy
- [C2] E. Kuljanic, M. Sortino, G. Totis, QCPM – An Innovative Algorithm for Quick Chatter Prediction in Milling, VIII Convegno AITeM, 2007, Montecatini Terme (PT), Italy

- [C3] E. Kuljanic, M. Sortino, G. Totis, G. Wirtz, Experimental Identification of the Dynamics of a New Rotating Dynamometer for Face Milling, IX Convegno AITeM, 2009, Torino (TO), Italy
- [C4] G. Totis, M. Sortino, E. Kuljanic, Influence of Tooling System Configuration on Chatter Onset in Internal Turning, X Convegno AITeM, 2011, Napoli (NA), Italy
- [C5] S. Belfio, M. Sortino, G. Totis, E. Kuljanic, Application of Simulation for Preventive Evaluation of Feasibility and Costs in Turning, XI Convegno AITeM, 2013, San Benedetto del Tronto (AN), Italy

7.4 Book chapters

- [D1] SORTINO, Marco, TOTIS, Giovanni (2015). Prediction and control of vibrations and chatter in machining. In: (a cura di): Eugenio Brusa, Mechatronics: Principles, Technologies and Applications. p. 191-224, Nova Science Publishers, Inc., ISBN: 9781634828543

7.5 Experimental reports

- [E1] E. Vaglio, T. De Monte, A. Lanzutti, G. Totis, M. Sortino, and L. Fedrizzi. "Single tracks data obtained by selective laser melting of Ti6Al4V with a small laser spot diameter". In: Data in Brief 33 (2020). doi: 10.1016/j.dib.2020.106443