

University Academic Curriculum Vitae

Personal information Prof. Pasquale Russo Spena
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Education since leaving school

- 2004, Degree in Materials Engineering at Politecnico di Torino (Italy)
- 2009, Ph.D. in “Industrial Production Systems Engineering” (XXI cycle) at Politecnico di Torino (Italy)
- 2022, Abilitazione Scientifica Nazionale - full professor (SSD Ing-Ind/16)

Present appointment

- Associate Professor
- December 2018
- Department of Management and Production Engineering at the Politecnico di Torino (Italy)
- didactic, research, and third mission activities for Politecnico di Torino. The didactic activity mainly concerns teaching courses about manufacturing technology for mechanical and automotive engineering courses. The main research activities are in the field of welding and joining processes.

Professional experience Chronological list of all previous employments (each with job title, starting and finishing dates, level, employer, responsibilities)

From / to	Job title	Name of academic Institution	Academic level	responsibilities
September 2010 - December 2018	Assistant professor	Free University of Bozen-Bolzano (Italy)	Assistant professor	Didactic, research, and third mission activities in the field of manufacturing engineering.
01/01/2009 / 30/08/2010	Research assistant	Politecnico di Torino (Italy)	Research assistant	Development of models and tools for the management of product information in manufacturing processes.

Experience in academic teaching

- In the last 5 years, Pasquale Russo Spena has been the lecturer of the following courses in the field of manufacturing engineering:
 - *since a.a. 2018-2019*, “Tecnologia Meccanica”, Credits (ETCS) 8, B.Sc. in “Mechanical Engineering” at the Politecnico di Torino.
 - *since a.a. 2018-2019*, “Manufacturing and Assembly Technologies”, Credits (ETCS) 10, B.Sc. in “Automotive Engineering” at the Politecnico di Torino.
 - *a.a. 2023-2024*, “Manufacturing Technology”, Credits (ETCS) 8, B.Sc. in “Industrial and Mechanical Engineering” at the Free University of Bozen-Bolzano.
 - *until a.a. 2022-2023*, “Technologies and Production Processes for

Energy Engineering”, Credits (ETCS) 6, M.Sc. in “Energy Engineering” at the Free University of Bozen-Bolzano.

- Academic responsibility and coordinator of several thesis activities in the field of manufacturing engineering
- Postgraduate supervision (PhD level): supervision or co-supervision of n. 6 PhD students in the field of manufacturing engineering

Memberships

- Since 2011, Member of the Italian Association of Manufacturing Technology (Associazione Italiana di Tecnologia Meccanica, AITeM).

- Since 2016, Member of the “American Welding Association” (AWS), USA.

- Since 2015, Member of the "The Minerals, Metals & Materials Society" (TMS), USA.

- Since 2015, member of the "Materials Characterization Committee" of the American society "The Minerals, Metals & Materials Society, TMS" (USA)". The committee deals with the organization of some scientific sessions (eg, welding and solidification, materials and manufacturing processing) in the annual "TMS Annual Meeting & Exhibition" annual conference in USA, as well as other activities such as the publication of deserving articles in international journals , the choice of best papers and posters for the scientific sessions organized by the committee.

- Since 2018, member of the register of expert peer reviewers for italian scientific evaluation (REPRISE).

- Member of the board of reviewers of several referred international journals

- Member of Editorial Boards

- Since 2018, Guest Editor of the Special Issues for the journals METALS and MATERIALS MDPI.

- Appointments in scientific conferences

- 2015 Chairman of scientific sessions of TMS 2015, 144th annual meeting & exhibition" organized by The Minerals, Metals & Materials Society, TMS, Orlando (Florida, USA), 15th - 19th March 2015.

- 2017 Chairman of the scientific sessions of "TMS 2017, 146th annual meeting & exhibition" organized by The Minerals, Metals & Materials Society, TMS, San Diego (California, USA), 26th February - 2nd March 2017.

- 2018 Program organizer of the scientific session “Mechanical Characteristics and Application Properties of Metals and Non-metals for Technology: An EPD Symposium in Honor of Donato Firrao” during the international conference "TMS 2018, 147th annual meeting & exhibition" organized by The Minerals, Metals & Materials Society, TMS, Phoenix (California, USA), 11st - 15th March 2018.

- 2018 Chairman of the scientific sessions of "TMS 2018, 147th annual meeting & exhibition" organized by The Minerals, Metals & Materials Society, TMS, Phoenix (California, USA), 11st - 15th March 2018.

Publications

Journal articles in refereed academic journals

Mirandola, P., Lunetto, V., Novel, D., Barozzi, M., Bellutti, P., Maddis, M., Russo Spena, P (2023). Strength and microstructure of friction stir welded additively manufactured Scalmalloy® in as-welded and heat-treated conditions. *JOURNAL OF MANUFACTURING PROCESSES*, Vol. 97, pp. 1-11. DOI: 10.1016/j.jmapro.2023.04.051

Lunetto V., De Maddis M., Russo Spena P. (2023). Similar and dissimilar lap friction stir welding of titanium alloys: on the elimination of the hook defect. *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, 2023, 126(7-8), pp. 3417–3435. DOI: 10.1007/s00170-023-11316-1

De Maddis M., Lunetto V., Razza V., Russo Spena P (2022). Infrared Thermography for Investigation of Surface Quality in Dry Finish Turning of Ti6Al4V. *METALS*, 2022, 12(1), 154. DOI: 10.3390/met12010154

Basile D., Sesana R., De Maddis M., Borella L., Russo Spena P (2022). Investigation of Strength and Formability of 6016 Aluminum Tailor Welded Blanks Investigation of Strength and Formability of 6016 Aluminum Tailor Welded Blanks. *METALS*, 2022, 12(10), 1593. DOI: 10.3390/met12101593

Panza L., Maddis M.D., Russo Spena P. (2022). Use of electrode displacement signals for electrode degradation assessment in resistance spot welding. *JOURNAL OF MANUFACTURING PROCESSES*, 2022, 76, pp. 93–105. DOI: 10.1016/j.jmapro.2022.01.060

Safeen M.W., Russo Spena P., Buffa G., Campanella D., Masnata A., Fratini L (2021). Effect of position and force tool control in friction stir welding of dissimilar aluminum-steel lap joints for automotive applications. *ADVANCES IN MANUFACTURING*, 2020, 8(1), pp. 59–71. DOI: 10.1007/s40436-019-00290-1

De Maddis M., Russo Spena P (2021). Plastic flow behavior of twinning induced plasticity steel from low to warm temperatures. *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY*, 2020, 9(2), pp. 1708–1719 DOI: 10.1016/j.jmrt.2019.11.094

Russo Spena P., Angelastro A., Casalino G (2021). Hybrid laser arc welding of dissimilar TWIP and DP high strength steel weld. *JOURNAL OF MANUFACTURING PROCESSES*, 2019, 39, pp. 233–240. DOI: 10.1016/j.jmapro.2019.02.025

Safeen M.W., Russo Spena P (2019). Friction stir welding of aluminum alloys and steels: Issues and solutions. *Minerals, Metals and Materials Series*, 2019, pp. 189–200. DOI: 10.1007/978-3-030-05749-7_20

Rauch E., Russo Spena P., Matt D.T (2019). Axiomatic design guidelines for the design of flexible and agile manufacturing and assembly systems for SMEs. *INTERNATIONAL JOURNAL ON INTERACTIVE DESIGN AND MANUFACTURING*, 2019, 13(1), pp. 1–22. DOI: 10.1007/s12008-018-0460-1

Safeen M.W., Russo Spena P (2019). Main issues in quality of friction stir welding joints of aluminum alloy and steel sheets. *Metals*, 2019, 9(5), 610. DOI: 10.3390/met9050610.

Russo Spena P., Cortese L., Nalli F., Májlinger K (2019). Local formability and strength of TWIP-TRIP weldments for stamping tailor welded blanks (TWBs). *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, 2019, 101(1-4), pp. 757–771. DOI: 10.1007/s00170-018-2946-1

Russo Spena P, Rossi S, Wurzer R (2017). Effects of welding

parameters on strength and corrosion behavior of dissimilar galvanized Q&P and TRIP spot welds. METALS, vol. 7(12), p. 1-14, ISSN: 2075-4701, doi: 10.3390/met7120534

Russo Spena P (2017). CO2 laser cutting of hot stamping boron steel sheets. METALS, vol. 7(11), 456, ISSN: 2075-4701, doi: 10.3390/met7110456

Sangermano M., Periolatto M., Signore V., Russo Spena P (2017). Improvement of the water-vapor barrier properties of an uv-cured epoxy coating containing graphite oxide nanoplatelets. PROGRESS IN ORGANIC COATINGS, vol. 103, p. 152-155, ISSN: 0300-9440, doi: 10.1016/j.porgcoat.2016.10.032

Russo Spena P, De Maddis M, Lombardi F (2017). Evaluation of Hot Tearing in Large Mottled Iron Rolls by Microstructural and FEM Casting Analyses. STEEL RESEARCH INTERNATIONAL, vol. 88, p. 1-13, ISSN: 1611-3683, doi: 10.1002/srin.201600391

Morozova K, Andreotti C, Armani M., Cavani L., Cesco S., Cortese L., Gerbi V., Mimmo T., Russo Spena P., Scampicchio M. Indirect effect of glyphosate on wine fermentation studied by microcalorimetry. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol. 127(2), p. 1351-1360, doi: 10.1007/s10973-016-5891-y

Russo Spena P, De Maddis M., Lombardi F., Rossini, M. (2016). Dissimilar resistance spot welding of Q&P and TWIP steel sheets. MATERIALS AND MANUFACTURING PROCESSES, vol. 31, p. 291-299, ISSN: 1042-6914, doi: 10.1080/10426914.2015.1048476

Májlinger K, Kalácska E, Russo Spena P (2016). Gas metal arc welding of dissimilar AHSS sheets. MATERIALS & DESIGN, vol. 109, p. 615-621, ISSN: 0264-1275, doi: 10.1016/j.matdes.2016.07.084

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. JOURNAL OF INDUSTRIAL ENGINEERING AND MANAGEMENT, vol. 9, p. 450-486, ISSN: 2013-0953, doi: 10.3926/jiem.1504

Russo Spena P, De Maddis M., D'Antonio G., Lombardi F. (2016). Weldability and Monitoring of Resistance Spot Welding of Q&P and TRIP Steels. METALS, vol. 6, p. 1-15, ISSN: 2075-4701, doi: 10.3390/met6110270

Russo Spena P, Cortese L., De Maddis M., Lombardi F. (2016). Effects of Process Parameters on Spot Welding of TRIP and Quenching and Partitioning Steels. STEEL RESEARCH INTERNATIONAL, ISSN: 1611-3683, doi: 10.1002/srin.201600007

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, doi: 10.1504/IJPQM.2016.076708

M. Luccarelli, D.T. Matt, Russo Spena P (2015). Modular Architectures for Future Alternative Vehicles. INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol. 67, p. 368-387, ISSN: 0143-3369, doi: 10.1504/IJVD.2015.070412

Russo Spena P, P Matteis, G Scavino (2015). Dissimilar Metal Active Gas Welding of TWIP and DP Steel Sheets. STEEL RESEARCH INTERNATIONAL, vol. 86, p. 495-501, ISSN: 1611-3683, doi: 10.1002/srin.201400154

Matt DT, Rauch E, Dallasega P, Vidoni R, Russo Spena P (2015). Synchronisierung von ETO-Fertigung und

Baustellenmontage (Synchronisation of ETO-manufacturing and on-site installation). ZWF, vol. 01-02, p. 9-13, ISSN: 0947-0085, doi: 10.3139/104.111276

Russo Spena P, De Maddis M, Lombardi F (2015). Cut quality assessment of CO₂ laser cutting of twinning-induced plasticity steel sheets. PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART B, JOURNAL OF ENGINEERING MANUFACTURE, vol. 229, p. 3-19, ISSN: 0954-4054, doi: 10.1177/0954405414525382

Russo Spena P, De Maddis M., Lombardi F., Rossini M. (2015). Investigation on resistance spot welding of TWIP steel sheets. STEEL RESEARCH INTERNATIONAL, vol. 86, p. 1480-1489, ISSN: 1611-3683, doi: 10.1002/srin.201400336

M. Rossini, Russo Spena P, L. Cortese, P. Matteis, D. Firrao (2015). Investigation on dissimilar laser welding of advanced high strength steel sheets for the automotive industry. MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol. 628, p. 288-296, ISSN: 0921-5093, doi: 10.1016/j.msea.2015.01.037

Rossini M, Matt DT, Russo Spena P, Luccarelli M, Ciarapica FE (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

Russo Spena P, D'Aiuto F, Matteis P, Scavino G (2014). Dissimilar arc welding of advanced high-strength car-body steel sheets. JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol. 23, p. 3949-3956, ISSN: 1059-9495, doi: 10.1007/s11665-014-1209-z

Luccarelli M, Matt DT, Russo Spena P (2013). Impact of electromobility on automotive architectures. WORLD ELECTRIC VEHICLE JOURNAL, vol. 6, p. 1-8, ISSN: 2032-6653

Russo Spena P, Firrao D (2013). Thermomechanical warm forging of Ti-V, Ti-Nb, and Ti-B microalloyed medium carbon steels. MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol. 560, p. 208-215, ISSN: 0921-5093, doi: 10.1016/j.msea.2012.09.058

Firrao, D., Matteis, P., Russo Spena P, Gerosa, R. (2013). Influence of the microstructure on fatigue and fracture toughness properties of large heat-treated mold steels. MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol. 559, p. 371-383, ISSN: 0921-5093, doi: <http://dx.doi.org/10.1016/j.msea.2012.08.113>

F.E.Ciarapica, D.T. Matt, M. Luccarelli, M. Rossini, Russo Spena P (2013). Factors affecting future scenarios for alternative vehicles market. ADVANCED MATERIALS RESEARCH, vol. 608-609, p. 1607-1612, ISSN: 1022-6680, doi: 10.4028/www.scientific.net/AMR.608-609.1607

Donato F, Matteis P, Russo Spena P, Mortarino GMM (2010). Fatigue crack growth in inhomogeneous steel components. INTERNATIONAL JOURNAL OF FATIGUE, vol. 32, p. 864-869, ISSN: 0142-1123, doi:10.1016/j.ijfatigue.2009.10.004

Matteis P, Russo Spena P, Pozzi C, Baser T, Baricco M., Battezzati L, Firrao D, Castellero A (2010). Fracture behavior in Cu_{46.5}Zr_{46.5}Al₇ and Cu_{46.5}Zr_{41.5}Al₇Y₅ bulk metallic glasses..

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Scavino G., D'Aiuto F., Matteis P., Russo Spena P, Firrao D. (2010). Plastic localization phenomena in a Mn-alloyed austenitic steel. METALLURGICAL AND MATERIALS TRANSACTIONS. A, PHYSICAL METALLURGY AND MATERIALS SCIENCE, vol. 41A, p. 1493-1501, ISSN: 1073-5623, doi: 10.1007/s11661-010-0191-9

Firrao D, Matteis P, Mortarino GMM, Russo Spena P, Ienco MG, Pellati G, Pinasco MR., Gerosa R, Silva G, Rivolta B, Tata E, Montanari R. (2009). Effect of the heat treatment on the mechanical properties of a precipitation hardening steel for large plastic molds. LA METALLURGIA ITALIANA, p. 33-42, ISSN: 0026-0843

Conference papers

Contuzzi N., Casalino G., Russo Spena P (2023). Grey Relational Analysis vs. Response Surface Methodology for the Prediction of the Best Joint Strength in Hybrid Welding of TWIP/DP Steels. LECTURE NOTES IN NETWORKS AND SYSTEMS, 2023, 745 LNNS, pp. 12–22. DOI: 10.1007/978-3-031-38274-1_2

Panza L., Bruno G., De Maddis M., Lombardi F., Russo Spena P., Traini E (2022). Data-Driven Framework for Electrode Wear Prediction in Resistance Spot Welding. IFIP Advances in Information and Communication Technology, 2022, 639 IFIP, pp. 239–252 DOI: 10.1007/978-3-030-94335-6_17

Casalino G., Angelastro A., Perulli P., Posa P., Russo Spena P (2019). Fiber laser-MAG hybrid welding of DP/AISI 316 and TWIP/AISI 316 dissimilar weld. PROCEDIA CIRP, 2019, 79, pp. 153–158. DOI: 10.1016/j.procir.2019.02.035

Borgianni Y., Maccioni L., Russo Spena P., Shunmugavel M. University education in additive manufacturing and the need to boost design aspects. Proceedings of the International Conference on Engineering Design, ICED, 2019, 2019-August, pp. 629–638. DOI: 10.1017/dsi.2019.67.

Angelastro A., Casalino G., Perulli P., Russo Spena P. (2018). Weldability of TWIP and DP steel dissimilar joint by laser arc hybrid welding with austenitic filler. Procedia CIRP, 2018, 67, pp. 607–611. DOI: 10.1016/j.procir.2018.05.001

Nalli F, Russo Spena P, Cortese L, Reiterer D. Global-local characterization, and numerical modeling of TWB laser welded joints. ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE 2017); Tampa, FL, United States; 3 November 2017 through 9 November 2017, doi: 10.1115/IMECE2017-71506

Periolatto M, Di Francia E, Sangermano M, Grassini S, Russo Spena P (2017). Advanced Epoxy-Based Anticorrosion Coatings Containing Graphite Oxide. In: (a cura di): Lucas F. M. da Silva. MATERIALS DESIGN AND APPLICATIONS. ADVANCED STRUCTURED MATERIALS, vol. 65, p. 135-143, Cham:Springer International Publishing AG, ISBN: 978-3-319-50783-5, ISSN: 1869-8433, doi: 10.1007/978-3-319-50784-2_11

Kalácska E, Májlinger K, Fábíán ER, Russo Spena P (2017). MIG-welding of dissimilar advanced high strength steel sheets. In: Szabo P.J., Berecz T., Orbulov I.N., Májlinger K., Csore A.. Materials Science, Testing and Informatics VIII. MATERIAL SCIENCE FORUM, vol. 885, p. 80-85, Trans Tech Publications LTD, ISBN: 978-303835763-6, ISSN: 1662-9752, Balatonalmádi; Hungary,

10.10.2015 - 13.10.2015, doi:
10.4028/www.scientific.net/MSF.885.80

Periolatto M., Sangermano M., Russo Spena P (2016). Photocured epoxy/graphene nanocomposites with enhanced water vapor barrier properties. In: (a cura di): D'Amore A., Grassia L., Acierno D., AIP Conference Proceedings. AIP CONFERENCE PROCEEDINGS, vol. 1736, 4949619, American Institute of Physics Inc., ISBN: 978-073541390-0, ISSN: 0094-243X, Ischia, Naples; Italy, 19 June 2016 through 23 June 2016, doi: 10.1063/1.4949619

Russo Spena P, Holzner P, Rauch E, Vidoni R, Matt DT (2016). Requirements for the Design of flexible and changeable manufacturing and Assembly Systems: a SME-survey. In: Research and Innovation in Manufacturing: Key Enabling Technologies for the Factories of the Future - Proceedings of the 48th CIRP Conference on Manufacturing Systems. PROCDIA CIRP, vol. 41, p. 207-212, Elsevier, ISSN: 2212-8271, Ischia, Naples, 24.6.2015 - 26.6.2015, doi: 10.1016/j.procir.2016.01.018

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Broggiato GB, Cortese L, Nalli F, Russo Spena P (2015). Full Field Strain Measurement of Dissimilar Laser Welded Joints . In: XXIII Convegno Nazionale IGF. PROCDIA ENGINEERING, vol. 109, p. 356-363, ISSN: 1877-7058, Favignana, TP, 22-24/06/2015, doi:10.1016/j.proeng.2015.06.243

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**Language
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- Italian first language;
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