

Curriculum Vitae et Studiorum

DARIO FRANCESCO SANTONOCITO

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Researcher's profile

Google-ScholarID: [dario-santonocito-unime](https://scholar.google.com/citations?user=dario-santonocito-unime)

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Research Gate: [researchgate.net/profile/Dario_Santonocito](https://www.researchgate.net/profile/Dario_Santonocito)

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CURRENT AND PAST POSITIONS

- | | |
|--|---|
| 31 December 2021 –
Actually
<i>University</i> | Assistant Professor of Mechanical Design and Machine Construction (Ricercatore a tempo determinato RTD-A S.S.D. ING/IND14)
Università di Messina (Italia), Dip. di Ingegneria |
| 15 October 2021 – 30
December 2021
<i>University</i>
<i>Tutor</i>
<i>Research fields</i> | Post-doc Researcher (S.S.D. ING/IND14)
Università di Messina (Italy), Dip. di Ingegneria
Prof. Giacomo Risitano (S.S.D. ING/IND14)
Study of the thermomechanical forces in BIO-MCI fueled with innovative fuels |
| 15 June 2021 –
4 July 2021
<i>University</i>
<i>Tutor</i>
<i>Research fields</i> | Scholarship
Università di Messina (Italy), Dip. di Ingegneria
Prof. Giacomo Risitano (S.S.D. ING/IND14)
Preliminary study of damage detection systems on a drone for control and inspection of fuel transport pipes |
| 15 December 2021 –
14 April 2021
<i>University</i>
<i>Tutor</i>
<i>Research fields</i> | Scholarship
Università di Messina (Italy), Dip. di Ingegneria
Prof. Giacomo Risitano (S.S.D. ING/IND14)
Structural fatigue analysis of topologically optimized mechanical components. |
| 1 October 2019 - Actually
<i>University</i>
<i>Topic</i> | Expert in the field (SSD ING/IND 14)
Università di Messina (Italy), Dip. di Ingegneria
“Mechanical design” |

October 2019 - Actually **Co-founder of Neural – Innovation Network**
Innovative start-up that favors Research and Development and Open Innovation processes within the company realities.
<https://weareneural.com/>

March 2022 - Actually **Co-founder of KnoWoW – Spinoff universitario**
University spinoff active in the field of Research and Development.

PATENT REQUEST

- Patent request for industrial innovation “**Compact machine for rapid fatigue tests of materials (Rapid Test Machine) and methods implemented with said machine**”.
Request Data: 22/04/2020, Request number to Italian Ministry of Economy n°: 102020000008563.
Inventors: Giacomo Risitano, Antonino Risitano, Danilo D’Andrea, **Dario Santonocito**.

INSTRUCTION

October 2017 –
November 2020 **PhD in "Engineering and chemistry of materials and construction"**
with “**Doctor Europaeus**” mention
Data of achievement: 20 Nov 2020
University Università di Messina (Italy), Dip. di Ingegneria
Thesis/Supervisor “Energy Methods for Fracture and Fatigue assessment”
Prof. Giacomo Risitano
Research Topics Study of energetic methods for the fatigue characterization of engineering materials. The experimental methodologies include the Risitano Thermographic Method (TM) and the Static Thermographic Method (STM). The numerical methodologies include the SED approach and the Peak Stress Method.

September 2013 –
October 2016 **Master's Degree in Mechanical Engineering**
Data of achievement: 19 Ott 2016 with **110/110** score
University Università di Catania (Italy), Dip. di Ingegneria Civile e Architettura
Thesis/Supervisors “Energy release in steels subjected to quasi-static tensile and compressive loads”
Prof. Giovanna Fargione, Prof. Antonino Risitano, Dr. Carmelo Clienti, Dr. Fabio Giudice.
Research topics Experimental analysis of energy release in steels subjected to quasi-static uniaxial load sequences, using thermographic investigation techniques.

September 2009 –
July 2013 **Bachelor's Degree in Mechanical Engineering**
Data of achievement: 25 July 2013 with **110/110** score
University Università di Catania (Italy), Dip. di Ingegneria Civile e Architettura
Thesis/Supervisors “Rapid method for determining the temperature in straight toothed gears”
Prof. Antonino Risitano, Prof. Giovanna Fargione

Research Topics

Development of an analytical model for identifying the steady-state temperature of pairs of meshing straight toothed gears.

COURSES AND PHD SCHOOL

- 1st Winter School on “Trends on Additive Manufacturing for Engineering Applications”, online, 25-29 January 2021.
- 1st Virtual ESIS Summer School, 6-31 July 2020.
- Short Course on Experimental Techniques and Testing on Composite Material, Vicenza (Italy), 22-23 July 2019.
- Second International Summer School on Fatigue and Damage Mechanics of Composite Materials, Vicenza (Italy), 15-19 July 2019;
- IGF 25 PhD. Summer School on Fracture Mechanics, Catania (Italy), 9-11 June 2019.
- "Advanced methods for fatigue design", University of Padova, PhD. Lectures, Padova (Italy), 22 February 2019;
- “Failure Analysis”, Italian Society of Metallurgy (AIM), Milan (Italy), 21-22-28-29 November 2018;
- AIAS PhD. Summer School 2018 "Advanced Design of Connections", Ferrara (Italy), May 2018

MOBILITY PERIODS

- **Institute for Physics of Materials IPM**, May 2022, “Energy Methods for AM materials”, Contact: **Dr. Lubos Nahlik**
[INTERNATIONAL – 1 Month]
- **Universitat Politècnica de Catalunya UPC**, November 2019 - February 2020, “Fatigue assessment of oleodynamic component”, Supervisor: **Prof. Esteban Codina Macia**.
[INTERNATIONAL – 3 Months]
- **Norwegian University of Science and Technology NTNU**, Erasmus+ for Traineeship, March 2019-June 2019, "Fatigue assessment of notched components by SED approach and Thermographic Method", Supervisor: **Prof. Filippo Berto**.
[INTERNATIONAL – 3 Months]
- **Università degli Studi di Padova**, January 2019-February 2019, "Peak Stress Method and local approaches for stress fields in notched mechanical components", Supervisor: **Prof. Giovanni Meneghetti** (S.S.D. ING/IND14).
[NATIONAL – 1 Month]

SCIENTIFIC CONFERENCES (S.S.D. ING/IND 14)

International Conference: 15 (11 as Speaker).

National Conference: 5 (5 as Speaker).

1. IGF Workshop Fracture and Structural integrity: ten years of “Frattura ed integrità strutturale”, Cassino (Italy), June 4-6, 2018.
[Speaker, INTERNATIONAL CONFERENCE - PRESENTATION]
2. BioM&M The first CONFERENZA INTERNAZIONALE on materials, mimicking, manufacturing from and for Bio Application, Milano (Italy), June 27-29, 2018.
[INTERNATIONAL CONFERENCE - PRESENTATION]

3. JCM2018 International Joint Conference of Mechanics, Design Engineering and Advanced Manufacturing, Carthagen (Spain), June 20-22, 2018.
[INTERNATIONAL CONFERENCE]
4. ECF22 Loading and environmental effects on Structural Integrity, Belgrade (Serbia), August 26-31, 2018. **[INTERNATIONAL CONFERENCE]**
5. 47° Convegno Nazionale AIAS, Villa San Giovanni (Italy), September 5-8, 2018.
[Speaker, INTERNATIONAL CONFERENCE]
6. IGF25 25th International Conference on Fracture and Structural Integrity, Catania (Italy), June 12-14 2019.
[Speaker, INTERNATIONAL CONFERENCE]
7. 48° Convegno Nazionale AIAS, Assisi (Italy), September 4-6, 2019.
[Speaker, NATIONAL CONFERENCE]
8. First Virtual Conference on Structural Integrity VCSII, 16 January 2020.
[Speaker, INTERNATIONAL CONFERENCE]
9. First Mediterranean Conference on Fracture and Structural Integrity MedFract1, Athens (Greece), 26-28 February 2020.
[Speaker, INTERNTIONAL CONFERENCE]
10. 1st Virtual European Conference on Fracture VECF1, 29 June – 1 July 2020 **[Speaker, INTERNATIONAL CONFERENCE]**
11. 49° Virtual AIAS 2020, 2-4 September 2020
[Speaker, NATIONAL CONFERENCE]
12. 1st Workshop on “Structural Integrity of Additively Manufactured Materials” SIAMM21, 25-26 February 2021
[Speaker, NATIONAL CONFERENCE]
13. 26th International Conference on Fracture and Structural Integrity IGF26, 26-31 May Torino (Italy)
[Speaker, INTERNTIONAL CONFERENCE]
14. 50° Virtual AIAS 2021, 1-3 September 2021
[Speaker, NATIONAL CONFERENCE]
15. 2nd European Conference on Structural Integrity of Additively Manufactured Materials ESIAM21, 8-10 September 2021 online
[Speaker, INTERNTIONAL CONFERENCE]
16. 7th International Conference on Crack Paths CP21, 21-24 September 2021 online
[INTERNTIONAL CONFERENCE]
17. 2nd Workshop on “Structural Integrity of Additively Manufactured Materials” SIAMM22, 4-5 February 2022
[Speaker, INTERNTIONAL CONFERENCE]

18. Second Mediterranean Conference on Fracture and Structural Integrity MedFract2, Catania (Italia), 14-16 February 2022.
[Speaker, INTERNATIONAL CONFERENCE]
19. 10th European Workshop on Structural Health Monitoring, Palermo (Italia), 4-7 July 2022.
[Speaker, INTERNATIONAL CONFERENCE]
20. 51° Convegno Nazionale AIAS, Padova (Italy), September 7-9, 2022.
[Speaker, NATIONAL CONFERENCE]

ORGANIZATION OF SCIENTIFIC CONFERENCES

1. “1st Virtual European Conference on Fracture” (Conferenza Scientifica n.10) Minisymposia on “Energy Methods for Fracture and Fatigue Assessment”. Organizer: Giacomo Risitano (Università di Messina), Oleg Plekhov (ICMM UB, Russia), Adam Lipski (UTP University of Science and Technology in Bydgoszcz, Polonia), **Dario Santonocito** (Università di Messina). Within the symposium, 10 works by international researchers were exhibited.

EDITORIAL ACTIVITIES

1. Member of the **Editorial Board** of “**Forces in Mechanics**” – Elsevier since 14/07/2022 ([Link](#)). Editor in Chief Prof. Filippo Berto (NTNU, Trondheim – Norvegia) e Prof. Bin Liu (Tsinghua University Department of Engineering Mechanics, Beijing, China).
2. **Special Issue “Metallurgical and Mechanical Assessment of Welded Joints via Numerical Simulation and Experiments ”** on “**Frontiers in Metals and Alloy**” ([Link](#)). **Topic Editors:** Mirco Peron (NTNU, Norway), **Dario Santonocito** (University of Messina, Italy), Alessandra Varone (University of Rome Tor Vergata, Italy). **Topic Coordinator:** Francesco Leoni (NTNU, Norway), Pietro Foti (NTNU, Norway).
3. **Special Issue “Energy and Thermographic Methods on Materials”** on “**Forces in Mechanics**” ([Link](#)). **Guest Editor:** Prof. Giacomo Risitano (University of Messina, Italy); Dr. **Dario Santonocito** (University of Messina, Italy).

LIST OF PUBLICATIONS

Total Publications: 34

Procedia: 15 (10 International Conferences; 5 National Conferences)

Journal: 18

Reviews: 1

Corresponding Author (*): 16

First Name: 6

Last Name: 12

Single Name: 2

Database	Citazioni	H-Index
<i>Scopus</i>	217	9
<i>Web of Science</i>	148	8

(updated 26 October 2022)

1. Cucinotta F., Guglielmino E., Longo G., Risitano G., **Santonocito D.**, Sfravara F. (2019) Topology Optimization Additive Manufacturing-Oriented for a Biomedical Application. In: Cavas-Martínez F., Eynard B., Fernández Cañavate F., Fernández-Pacheco D., Morer P., Nigrelli V. (eds) *Advances on Mechanics, Design Engineering and Manufacturing II*. Lecture Notes in Mechanical Engineering. Springer, Cham doi: https://doi.org/10.1007/978-3-030-12346-8_18 [**PROCEDIA - INTERNATIONAL CONFERENCE**]
2. G. Risitano, E. Guglielmino, **D. Santonocito**, Evaluation of mechanical properties of polyethylene for pipes by energy approach during tensile and fatigue tests, *Procedia Structural Integrity*, Volume 13, 2018, Pages 1663-1669, ISSN 2452-3216, doi: <https://doi.org/10.1016/j.prostr.2018.12.348>. [**PROCEDIA - INTERNATIONAL CONFERENCE**]
3. C. Barone, R. Casati, L. Dusini, F. Gerbino, E. Guglielmino, G. Risitano, **D. Santonocito**, Fatigue life evaluation of car front halfshaft, *Procedia Structural Integrity*, Volume 12, 2018, Pages 3-8, ISSN 2452-3216, doi: <https://doi.org/10.1016/j.prostr.2018.11.112>. [**PROCEDIA - NATIONAL CONFERENCE**]
4. G. Cervino, L. Fiorillo, G. Iannello, **D. Santonocito**, G. Risitano, M. Ciccì, Sandblasted and Acid Etched Titanium Dental Implant Surfaces Systematic Review and Confocal Microscopy Evaluation, *Materials* 2019, 12(11), 1763 , <https://doi.org/10.3390/ma12111763>. [**REVIEW - IF: 3.623 (2021)**]
5. P. Corigliano, F. Cucinotta, E. Guglielmino, G. Risitano, **D. Santonocito**, Thermographic analysis during tensile tests and fatigue assessment of S355 steel, *Procedia Structural Integrity*, Volume 18, 2019, Pages 280-286, ISSN 2452-3216, <https://doi.org/10.1016/j.prostr.2019.08.165>. [**PROCEDIA – INTERNATIONAL CONFERENCE**]
6. Guglielmino E., Risitano G., **Santonocito D.***, A new approach to the analysis of fatigue parameters by thermal variations during tensile tests on steel, *Procedia Structural Integrity*, Volume 24, 2019, Pages 651-657, ISSN 2452-3216, <https://doi.org/10.1016/j.prostr.2020.02.057>. [**PROCEDIA- NATIONAL CONFERENCE**]
7. Ciccì, M.; Cervino, G.; Terranova, A.; Risitano, G.; Raffaele, M.; Cucinotta, F.; **Santonocito, D.**; Fiorillo, L. Prosthetic and Mechanical Parameters of the Facial Bone under the Load of Different Dental Implant Shapes: A Parametric Study. *Prosthesis* 2019, 1, 41-53. doi: <https://doi.org/10.3390/prosthesis1010006> [**JOURNAL**]
8. Cervino, G.; Montanari, M.; **Santonocito, D.**; Nicita, F.; Baldari, R.; De Angelis, C.; Storni, G.; Fiorillo, L. Comparison of Two Low-Profile Prosthetic Retention System Interfaces: Preliminary Data of an In Vitro Study. *Prosthesis* 2019, 1, 54-60. doi: <https://doi.org/10.3390/prosthesis1010007> [**JOURNAL**]
9. **Santonocito D.***, Evaluation of fatigue properties of 3D-printed Polyamide-12 by means of energy approach during tensile tests, *Procedia Structural Integrity*, Volume 25, 2020, Pages

355-363, ISSN 2452-3216, <https://doi.org/10.1016/j.prostr.2020.04.040>. [PROCEDIA – INTERNATIONAL CONFERENCE]

10. Risitano G, Guglielmino E, **Santonocito D***. Energetic approach for the fatigue assessment of PE100. *Procedia Struct Integr* 2020;26:306–12. doi: <https://doi.org/10.1016/j.prostr.2020.06.039>. [PROCEDIA – INTERNATIONAL CONFERENCE]
11. Foti P, **Santonocito D**, Ferro P, Risitano G, Berto F. Determination of Fatigue Limit by Static Thermographic Method and Classic Thermographic Method on Notched Specimens. *Procedia Struct Integr* 2020;26:166–74. doi: <https://doi.org/10.1016/j.prostr.2020.06.020>. [PROCEDIA – INTERNATIONAL CONFERENCE]
12. Puleio F, Rizzo G, Nicita F, ..., **Santonocito D** et al. Chemical and mechanical roughening treatments of a supra-nano composite resin surface: SEM and topographic analysis. *Appl Sci* 2020;10:1–9. doi: <https://doi.org/10.3390/app10134457>. [JOURNAL – IF: 2.679 (2021)]
13. Corigliano, P, Cucinotta, F, Guglielmino, E, Risitano, G, **Santonocito, D.*** Fatigue assessment of a marine structural steel and comparison with thermographic method and static thermographic method. *Fatigue Fract Eng Mater Struct*. 2020; 43: 734– 743. <https://doi.org/10.1111/ffe.13158> [JOURNAL – IF: 3.459 (2021)]
14. Risitano, G., **Santonocito, D.***, 2020. Experimental and numerical assessment of the end of the thermoelastic effect during static traction test. *Procedia Struct. Integr.* 28, 1449–1457. <https://doi.org/10.1016/j.prostr.2020.10.118> [PROCEDIA – INTERNATIONAL CONFERENCE]
15. Cucinotta, F., D’Aveni, A., Guglielmino, E., Risitano, A., Risitano, G., **Santonocito, D.***, 2020. Thermal Emission analysis to predict damage in specimens of High Strength Concrete. *Frat. ed Integrità Strutt. ed Integrità Strutt.* 15, 258–270. <https://doi.org/10.3221/igf-esis.55.19> [JOURNAL]
16. Foti, P., **Santonocito, D.***, Risitano, G., Berto, F., 2021. Fatigue assessment of cruciform joints: Comparison between Strain Energy Density predictions and current standards and recommendations. *Eng. Struct.* 230, 111708. <https://doi.org/10.1016/j.engstruct.2020.111708> [JOURNAL – IF: 4.471 (2021)]
17. Foti, P.; Risitano, G.; Berto, F.; **Santonocito, D.*** Evaluation of the Energetic Release During Tensile tests in Notched Specimens by means of Experimental and Numerical Techniques. *IOP Conf. Ser. Mater. Sci. Eng.* 2021, 1038, 012038, <https://doi:10.1088/1757-899x/1038/1/012038>. [PROCEDIA – NATIONAL CONFERENCE]
18. **Santonocito, D.*** Numerical and experimental evaluation of the energetic release during static tensile tests on short fiber reinforced composite material. *IOP Conf. Ser. Mater. Sci. Eng.* 2021, 1038, 012059, <https://doi:10.1088/1757-899x/1038/1/012059>. [PROCEDIA – NATIONAL CONFERENCE]
19. D’andrea, D.; Cucinotta, F.; Farroni, F.; Risitano, G.; **Santonocito, D.**; Scappaticci, L. Development of machine learning algorithms for the determination of the centre of mass.

- Symmetry (Basel)*. **2021**, *13*, 1–16, <https://doi.org/10.3390/sym13030401>. [JOURNAL – 2.713 (2021)]
20. **D. Santonocito***, F. Nicita, G. Risitano, A Parametric Study on a Dental Implant Geometry Influence on Bone Remodelling through a Numerical Algorithm, *Prosthesis*. 3 (2021) 157–172. doi:10.3390/prosthesis3020016. [JOURNAL]
21. F. Carputo, D. D’Andrea, G. Risitano, A. Sakhnevych, **D. Santonocito**, F. Farroni, A Neural-Network-Based Methodology for the Evaluation of the Center of Gravity of a Motorcycle Rider, *Vehicles*. 3 (2021) 377–389. doi:10.3390/vehicles3030023. [JOURNAL]
22. L. Scappaticci, G. Risitano, **D. Santonocito**, D. D’Andrea, D. Milone, An Approach to the Definition of the Aerodynamic Comfort of Motorcycle Helmets, *Vehicles*. 3 (2021) 545–556. doi:10.3390/vehicles3030033. [JOURNAL]
23. **D. Santonocito***, A. Gatto, G. Risitano, Energy release as a parameter for fatigue design of additive manufactured metals, *Mater. Des. Process. Commun.* (2021) 1–7. doi:10.1002/mdp2.255. [JOURNAL]
24. D’Andrea, D.; Milone, D.; Nicita, F.; Risitano, G.; **Santonocito, D.*** Qualitative and Quantitative Evaluation of Different Types of Orthodontic Brackets and Archwires by Optical Microscopy and X-ray Fluorescence Spectroscopy. *Prosthesis* 2021, 3, 342-360. <https://doi.org/10.3390/prosthesis3040031> [JOURNAL]
25. D’Andrea D, Guglielmino E, Risitano G, **Santonocito D.*** A comparison on the Energy Release between traditional and Additive Manufactured AISI 316L steel during static tensile test. *IOP Conf Ser Mater Sci Eng* 2022;1214:012013. doi:10.1088/1757-899x/1214/1/012013. [PROCEDIA – NATIONAL CONFERENCE]
26. Foti P, **Santonocito D**, Risitano G, Berto F. Fatigue strength of a common steel welded detail through Eurocode 3 and local strain energy values. *Procedia Struct Integr* 2021;39:564–73. doi:10.1016/j.prostr.2022.03.130. [PROCEDIA – INTERNATIONAL CONFERENCE]
27. D’Andrea D, Risitano G, Guglielmino E, Piperopoulos E., **Santonocito D**, Correlation between mechanical behaviour and microstructural features of AISI 316L produced by SLM. *Procedia Struct Integr* 2022;41:199–207. doi:10.1016/j.prostr.2022.05.022. [PROCEDIA – INTERNATIONAL CONFERENCE]
28. Risitano G, Scappaticci L, Alberti F, **Santonocito D**, D’Andrea D. On the influence of the elastic characteristics of composite materials on the vibrating properties. *J Vib Control* 2022;107754632210982. doi:10.1177/10775463221098228. [JOURNAL – IF: 3.095 (2022)]
29. D’Andrea, D., Guglielmino, E., Risitano, G., **Santonocito, D.*** (2023). Rapid Determination of the Fatigue Behavior at Different Stress Ratios of Steels by Measuring the Energy Release. In: Rizzo, P., Milazzo, A. (eds) *European Workshop on Structural Health Monitoring. EWSHM 2022. Lecture Notes in Civil Engineering*, vol 254. Springer, Cham. https://doi.org/10.1007/978-3-031-07258-1_60 [PROCEDIA – INTERNATIONAL CONFERENCE]

30. Foti P, Crisafulli D, **Santonocito D***, Risitano G and Berto F 2022 Effect of misalignments and welding penetration on the fatigue strength of a common welded detail: SED method predictions and comparisons with codes Int. J. Fatigue 164 107135
[JOURNAL – IF: 5.489 (2022)]
31. **Santonocito D** and Milone D 2022 Deep Learning algorithm for the assessment of the first damage initiation monitoring the energy release of materials Frat. ed Integrita Strutt. 16 505–15
[JOURNAL]
32. D’andrea D, Risitano G, Raffaele M, Cucinotta F, **Santonocito D***. Damage assessment of different FDM-processed materials adopting Infrared Thermography. Frat Ed Integrita Strutt 2022;16:75–90. doi:10.3221/IGF-ESIS.62.06.
[JOURNAL]
33. Fiorillo L, Milone D, D’Andrea D, **Santonocito D**, Risitano G, Cervino G, et al. Finite Element Analysis of Zirconia Dental Implant. Prosthesis 2022;4:490–9. doi:10.3390/prosthesis4030040.
[JOURNAL]
34. **Santonocito D**, Risitano G, Cocco V Di, Andrea DD, Iacoviello F. Comparison on mechanical behavior and microstructural features between traditional and AM AISI 316L. Fatigue Fract Eng Mater Struct 2022:1–17. doi:10.1111/ffe.13872.
[JOURNAL – IF: 3.373 (2021)]

PEER REVIEW ACTIVITY

Verified Revisions on 15 Journal: 88 (from Publons)

Member of the Reviewer’s Board: 1 (Prosthesis)

1. **Fatigue and Fracture of Engineering Materials [IF: 3.459 (2021)]** (Wiley, <https://onlinelibrary.wiley.com/journal/14602695>)
24 Verified Revisions.
2. **Applied Sciences [IF: 2.679 (2021)]** (MDPI, <https://www.mdpi.com/journal/applsci>)
11 Verified Revisions.
3. **Frattura ed Integrità Strutturale (Fracture and Structural Integrity)**; (IGF, <https://www.fracturae.com/index.php/fis>)
27 Verified Revisions.
4. **Materials [IF: 3.623 (2021)]** (MDPI, <https://www.mdpi.com/journal/materials>)
13 Verified Revisions.
5. **Prosthesis**, (MDPI, <https://www.mdpi.com/journal/prosthesis>)
4 Verified Revisions – Member of the Reviewer Board.
6. **Material Design & Processing Communication** (Wiley, <https://onlinelibrary.wiley.com/journal/25776576materials>)
1 Verified Revisions.

7. **Corrosion and Materials Degradation** (MDPI, <https://www.mdpi.com/journal/cmd>)
1 Verified Revisions.
8. **Symmetry [IF: 2.713 (2021)]** (MDPI, <https://www.mdpi.com/journal/symmetry>)
1 Verified Revisions.
9. **Energies [IF: 3.004 (2021)]** (MDPI, <https://www.mdpi.com/journal/energies>)
1 Verified Revisions.
10. **Micromachines [IF: 2.891 (2021)]** (MDPI, <https://www.mdpi.com/journal/micromachines>)
2 Verified Revisions.
11. **Coatings [IF: 2.881 (2021)]** (MDPI, <https://www.mdpi.com/journal/coatings>),
3 Verified Revisions.
12. **Lubricants** (MDPI, <https://www.mdpi.com/journal/lubricants>),
2 Verified Revisions.
13. **Robotics** (MDPI, <https://www.mdpi.com/journal/robotics>),
1 Verified Revisions.
14. **Buildings [IF: 2.648 (2022)]** (MDPI, <https://www.mdpi.com/journal/buildings>),
2 Verified Revisions.
15. **Mathematics [IF: 2.592 (2022)]** (MDPI, <https://www.mdpi.com/journal/mathematics>),
1 Verified Revisions
16. **Metals [IF: 2.695 (2022)]** (MDPI, <https://www.mdpi.com/journal/metals>),
1 Verified Revisions.

RESEARCH TOPICS

Dario Santonocito's research activity is mainly focused on two distinct areas, where the typical methodologies of industrial engineering and mechanical design are applied.

The first research activity is focused on the application of energetic methods for the analysis of the fatigue life and fracture mechanics of engineering materials. These experimental methodologies include the Risitano Thermographic Method (RTM) and the Static Thermographic Method (STM). From a numerical point of view, the SED (Strain Energy Density) approach and other types of local approaches for the study of fatigue life are applied. A detailed study of these methodologies was addressed during the mobility periods at NTNU (Norway) and the University of Padua (Italy).

These research activities have been presented in various national and international scientific conferences (see Participation in scientific conferences no.1, 4-16 and List of Publications no. 2,3,5,6,9-11,14,17,18,25) and published in journals of international interest with and without impact factor (see List of Publications no. 13,15-16).

The second research activity focuses on the study of the structural integrity of biological tissues and prosthetic devices. Numerical simulations (finite elements) were performed to verify the interaction between the bone and the prosthesis in the case of dental implants (see List of Publications no. 20). Surface analysis was

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performed to evaluate the possibility of osseointegration (see List of Publications No. 12) and the verification of wear in orthodontic devices (see List of Publications No. 24).

Research activity on the identification of the centre of mass of a motorcyclist using machine learning algorithms has been published in international journals with and without impact factor (see List of Publications no.19, 21), as well as the research activity on comfort of a motorcyclist (see List of Publications no. 22).

Date

26/10/2022

Signature

Dario Francesco Santonocito, Ph.D.

A handwritten signature in black ink, reading "Dario Fco Santonocito". The signature is written in a cursive style with a large initial 'D' and 'F'.