

Prof. Ing. Antonio Lanzotti (LNZNTN62R03A783O)
Director of Fraunhofer JL IDEAS
Professor of Design and Methods of Industrial Engineering

Antonio Lanzotti was born in Benevento on October 3, 1962. He received his secondary education degree from Liceo Classico Virgilio of San Giorgio del Sannio (BN) in 1980.

He received his Masters Degree in Mechanical Engineering (summa cum laude) from Università degli Studi di Napoli Federico II in 1985.

From 1986 to 1987 he worked for the IT Dept. of Aeritalia.

In 1990 he received a Ph.D. in Material and Production Technology from the University of Naples Federico II.

From 1990 to 1992 he undertook research activity at the Dept. of Materials and Production Engineering, having received grants from CNR Istituto Motori and ATA – Technical Society of Automobile.

From 1992 to 1997, he undertook teaching and research activities before at the Dept. of Materials and Production Engineering and after 1994 at the Dept. of Aerospace Engineering, as researcher and then from 1997 in a teaching position as Associate Professor.

In 2001 he was appointed Full Professor in Design Methods of Industrial Engineering at University of Naples Federico II.

He now teaches “Product Design and Development” and “Engineering technical drawing”. He was the only teacher of “Statistics for Innovation” not belonging to the “Experimental Statistics for Engineering and Technology” Scientific Sector. He was the coordinator of a PhD course in Total Quality Management. Now He is a member of the Technology, Innovation and Management Doctorate School established by University of Bergamo and University of Naples Federico II.

He leaded a group of students that won the second prize at the international contest 24h for the innovation organized at the University of Biarritz. He has proposed a module for the enhancement of secondary school learning experience in a CRUI national project. He has been the coordinator of the first edition of Orizzonti project with Fermi-Gadda Secondary School.

Research and technological transfer activities

Antonio Lanzotti started his research activity in the area of design methods for reliability in 1990. He has published more than 110 papers in journals and conferences in the field. Antonio Lanzotti is leading a research group at University of Naples and is the founding **Director** of the international joint laboratory on Interactive Design And Simulation for engineering advances (**IDEAS**), established by Fraunhofer IWU of Chemnitz and Univ. of Naples Federico II. He has been a visiting researcher at **Fraunhofer IWU**. The ING-IND/15 research group, belonging to IDEAS, is ranked the first in Italy by ANVUR in the last VQR.

He has directed research projects funded by national public agencies (MIUR, CNR, Campania Region) and research units involved in international research projects (funded by EU).

He is **Associate Editor in Chief** of the **International Journal of Interactive Design and Manufacturing** published by Springer. He is a reviewer for international journals, He has been invited to lecture in International Conferences and has promoted and organized many International Conferences as a member of Steering and Scientific Committees. He was the **President of the Italian Association of Product Design** from 2004 to 2011. He is currently the **Past-President of the Quality Culture Society for the South Italy**. Further, He is the **Past-President of the Italian Scientific Sector on Design Methods for Industrial Engineering** (SSD ING-IND/15).

Finally, He is responsible for the international agreement between the Univ. of Naples Federico II and TU Chemnitz, ESTIA of Biarritz, University of Warwick and University of Bartin, Turkey and of Erasmus Exchange with Universidad Politecnica de Madrid, de Valencia, Universidad de Vigo, Barcelona, Huelva, Biarritz, Bordeaux, Chemnitz, Bartin, Warwick. He is a member of the International Committee of Federico II.

He is the Rector Delegate for the PNRR PE11 MICS project. He has been Rector delegate for the PON Industry 4.0 research project: **ICOSAF** with **FCA**, **Adler** SMEs and **ISAF** with Aeronautical District of Campania, Leonardo and SMEs. He has been the responsible of a research project with **AD**, **LND** and **D&S** on passive safety in sport fields. He has led the mechanical design team of Joy of Moving park at Expo 2015 for **FERRERO**. He is coordinator of research projects of **DAC** (distretto aerospaziale campano) and of a technology transfer project with **INAIL** concerning augmented tools to improve the Health and Safety of workers.

He has led, with the cooperation of prof. Martorelli, the participation of the DII at FUTURO REMOTO, organized by Città della Scienza (Napoli), having developed the demonstrator RICREAMI, that shows how to recycle PET to obtain the filament useful for AM.

He was delegated by the Rector to the administration of the Consortium PRODE with CRF Fiat (before ELASIS) and the Scarl TEST.

He was a member of the **Quality Committee** of the Mechanical Engineering laurea degree course that obtained the Quality Certification by the Fondazione CRUI for more than two years.

From 2013 to 2019 He has been the **Chairman** of the **Mechanical Engineering Committee** (Coordinatore del CdS).

Fraunhofer Joint Lab IDEAS (www.ideas.unina.it)

The **Lab IDEAS** has the aims of product and process innovation through the development of new design methods and simulation tools. The "Interactive D^Esign And Simulation" **lab** has been established by Fraunhofer IWU - Fraunhofer Institute for Machine Tools and Forming Technology in Chemnitz (D) and DII – Dept. of Industrial Engineering in Naples (I). The competences are in the following fields: Computer Graphics, Virtual Reality, Simulation, Concept Design, Product Development, Quality and Reliability for Innovation and Design for X.

The **Fraunhofer JL IDEAS** is organized in 4 labs:

1. **COGITO**, computer **g**eometric modeling and simulation (resp. S. Patalano);
2. **IDEAinVR**, interactive **d**esign and **e**rgonomics applications **i**n **v**irtual **r**eality (resp. G. Di Gironimo);
3. **CREAMI**, center of **r**everse **e**ngineering and **a**dditive **m**anufacturing **i**nnovation (Resp. M. Martorelli)
4. **SQUARE**, statistics, **q**uality and **r**eliability for innovation laboratory (resp. B. Palumbo)

IDEAS is involved in national and international projects with big industries, SME and research institutions in France, Germany, Spain, Sweden, UK and Turkey.

Patents:

Lanzotti A., Patalano S., Galileo F., Matrone G., Pontillo S. (2009). **Seduta regolabile per carrozzine destinate a soggetti diversamente abili**. Lanzotti A., Patalano S.. NA2009A000018.

In cooperation with IRCCS OASI MARIA SS. Troina (EN).

Recent publications (5 years):

1. **Panariello D., Grazioso S., Caporaso T., Palomba A., Di Gironimo G., Lanzotti A.**; Biomechanical analysis of the upper body during overhead industrial tasks using electromyography and motion capture integrated with digital human models; 2022; Int. Journal on Interactive Design and Manufacturing; 16; 2; ; 733; 752; ; 10.1007/s12008-022-00862-9

2. **Tribst J.P.M., de Moraes D.C., de Matos J.D.M., Lopes G.D.R.S., Dal Piva A.M.O., Borges A.L.S., Bottino M.A., Lanzotti A., Martorelli M., Ausiello P.;** Influence of Framework Material and Posterior Implant Angulation in Full-Arch All-on-4 Implant-Supported Prosthesis Stress Concentration; 2022; Dentistry Journal; 10; 1; 12; ; ; 10.3390/dj10010012
3. **Martorelli M., Gallicchio V., Gloria A., Lanzotti A.;** A Preliminary Analysis of the Effects of Process Parameters on the Impact Resistance of 3D Printed PETG and HIPS; 2022; Lecture Notes in Mechanical Engineering; ; ; 524; 534; ; 10.1007/978-3-030-91234-5_53
4. **Rega A., Di Marino C., Vitolo F., Patalano S., Lanzotti A.;** Towards the Upscaling of Biomanufacturing Process Enhanced by Human-Robot Collaboration; 2022; Lecture Notes in Mechanical Engineering; ; ; 615; 622; ; 10.1007/978-3-030-91234-5_61
5. **Grazioso S., Caporaso T., Di Gironimo G., Lanzotti A.;** Design of a Bioinspired Multi-fingered Soft Pneumatic Gripper with Embedded Suckers; 2022; Lecture Notes in Mechanical Engineering; ; ; 336; 341; ; 10.1007/978-3-030-91234-5_34
6. **Caporaso T., Grazioso S., Di Gironimo G., Lanzotti A.;** Design of Wearables for Biosignal Acquisition: A User Centered Approach for Concept Generation and Selection; 2022; Lecture Notes in Mechanical Engineering; ; ; 818; 826; ; 10.1007/978-3-030-91234-5_83
7. **Panariello D., Grazioso S., Caporaso T., Di Gironimo G., Lanzotti A.;** A Detailed Analysis of the Most Promising Concepts of Soft Wearable Robots for Upper-Limb; 2022; Lecture Notes in Mechanical Engineering; ; ; 71; 81; ; 10.1007/978-3-030-91234-5_7
8. **Marzullo D., Di Gironimo G., Lanzotti A., Mozzillo R., Tarallo A.;** Requirements Engineering in Complex Systems Design; 2022; Lecture Notes in Mechanical Engineering; ; ; 658; 667; ; 10.1007/978-3-030-91234-5_66
9. **de Crescenzo C., Richetta M., Martorelli M., Gloria A., Lanzotti A.;** A Further Investigation Toward the Design of Topology Optimized Solid-Lattice Hybrid Structures for Biomedical Applications; 2022; Lecture Notes in Mechanical Engineering; ; ; 514; 523; ; 10.1007/978-3-030-91234-5_52
10. **Panariello D., Grazioso S., Caporaso T., Di Gironimo G., Lanzotti A.;** Preliminary Requirements of a Soft Upper-Limb Exoskeleton for Industrial Overhead Tasks Based on Biomechanical Analysis; 2022; Lecture Notes in Networks and Systems; 223 LNNS; ; ; 317; 324; ; 10.1007/978-3-030-74614-8_38
11. **Rega A., Di Marino C., Pasquariello A., Vitolo F., Patalano S., Zanella A., Lanzotti A.;** Collaborative workplace design: A knowledge-based approach to promote human-robot collaboration and multi-objective layout optimization; 2021; Applied Sciences (Switzerland); 11; 24; 12147; ; ; 10.3390/app112412147
12. **Sellan P.L.B., Campaner L.M., Tribst J.P.M., De Dal Piva A.M.O., De Andrade G.S., Borges A.L.S., Bresciani E., Lanzotti A., Ausiello P.;** Functional or nonfunctional cusps preservation for molars restored with indirect composite or Glass-ceramic Onlays: 3d FEA study; 2021; Polymers; 13; 21; 3831; ; ; 10.3390/polym13213831
13. **Ausiello P., Tribst J.P.M., Ventre M., Salvati E., di Lauro A.E., Martorelli M., Lanzotti A., Watts D.C.;** The role of cortical zone level and prosthetic platform angle in dental implant mechanical response: A 3D finite element analysis; 2021; Dental Materials; 37; 11; ; 1688; 1697; ; 10.1016/j.dental.2021.08.022
14. **Grazioso S., Tedesco A., Selvaggio M., Debei S., Chiodini S., De Benedetto E., Di Gironimo G., Lanzotti A.;** Design of a soft growing robot as a practical example of cyber-physical measurement systems; 2021; 2021 IEEE International Workshop on Metrology for Industry 4.0

and IoT, MetroInd 4.0 and IoT 2021 - Proceedings; 9488477; 23; 26; ; 10.1109/MetroInd4.0IoT51437.2021.9488477

15. **CAMPANER L.M., DE OLIVEIRA PINTO RIBEIRO A., TRIBST J.P.M., BORGES A.L.S., DI LAURO A.E., LANZOTTI A., GARCIA-GODOY F., AUSIELLO P.**; Loading stress distribution in posterior teeth restored by different core materials under fixed zirconia partial denture: A 3d-fea study; 2021; American Journal of Dentistry; 34; 3; ; 157; 162; ;
16. **Ausiello P., Piva A.M.O.D., Borges A.L.S., Lanzotti A., Zamparini F., Epifania E., Tribst J.P.M.**; Effect of shrinking and no shrinking dentine and enamel replacing materials in posterior restoration: A 3d-fea study; 2021; Applied Sciences (Switzerland); 11; 5; 2215; 1; 12; ; 10.3390/app11052215
17. **Sanseverino G., Schwanitz S., Krumm D., Odenwald S., Lanzotti A.**; Towards innovative road cycle gloves for low vibration transmission; 2021; International Journal on Interactive Design and Manufacturing; 15; 1; ; 155; 158; ; 10.1007/s12008-020-00748-8
18. **Panariello D., Grazioso S., Caporaso T., Di Gironimo G., Lanzotti A.**; User-centered approach for design and development of industrial workplace; 2021; International Journal on Interactive Design and Manufacturing; 15; 1; ; 121; 123; ; 10.1007/s12008-020-00737-x
19. **Vitolo F., Patalano S., Lanzotti A.**; A graph-based approach and an interactive tool for preliminary digital prototyping; 2021; International Journal on Interactive Design and Manufacturing; 15; 1; ; 125; 127; ; 10.1007/s12008-020-00740-2
20. **Vanacore A., Lanzotti A., Percuoco C., Vitolo B.**; Statistical Modelling of Comfort Preferences and Uncertainty in Subjective Evaluations of Aircraft Seat Comfort; 2021; Lecture Notes in Networks and Systems; 221 LNNS; ; ; 178; 183; ; 10.1007/978-3-030-74608-7_23
21. **Vanacore A., Lanzotti A., Percuoco C., Capasso A., Vitolo B.**; A model-based approach for the analysis of aircraft seating comfort; 2021; Work; 68; s1; ; S251; S255; ; 10.3233/WOR-208023
22. **Ausiello P., Ciaramella S., De Benedictis A., Lanzotti A., Tribst J.P.M., Watts D.C.**; The use of different adhesive filling material and mass combinations to restore class II cavities under loading and shrinkage effects: a 3D-FEA; 2021; Computer Methods in Biomechanics and Biomedical Engineering; 24; 5; ; 485; 495; ; 10.1080/10255842.2020.1836168
23. **Di Marino C., Rega A., Vitolo F., Patalano S., Lanzotti A.**; A new approach to the anthropocentric design of human-robot collaborative environments; 2020; Acta IMEKO; 9; 4; ; 80; 87; ; 10.21014/acta_imeko.v9i4.743
24. **Caporaso T., Grazioso S., Di Gironimo G., Lanzotti A.**; Biomechanical indices represented on radar chart for assessment of performance and infringements in elite race-walkers; 2020; Sports Engineering; 23; 1; 4; ; ; 10.1007/s12283-019-0317-2
25. **Caporaso T., Palomba A., Grazioso S., Panariello D., DI Gironimo G., Gimigliano F., Iolascon G., Lanzotti A.**; Development of site-specific biomechanical indices for estimating injury risk in cycling; 2020; IEEE Medical Measurements and Applications, MeMeA 2020 - Conference Proceedings; ; ; 9137327; ; ; 10.1109/MeMeA49120.2020.9137327
26. **Caporaso T., Palomba A., Grazioso S., Megna A., Panariello D., Perez D., Marchettoni P., Di Gironimo G., Lanzotti A.**; Comparison among different inertial-based algorithms for the automatic detection of temporal events in sprint tests: A preliminary study on elite athletes with intellectual impairment; 2020; 2020 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2020 - Proceedings; ; ; 9138172; 511; 515; ; 10.1109/MetroInd4.0IoT48571.2020.9138172

27. **Conforti I., Mileti I., Panariello D., Caporaso T., Grazioso S., Del Prete Z., Lanzotti A., Di Gironimo G., Palermo E.**; Validation of a novel wearable solution for measuring L5/S1 load during manual material handling tasks; 2020; 2020 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2020 - Proceedings; ; ; 9138259; 501; 506; ; 10.1109/MetroInd4.0IoT48571.2020.9138259
28. **Caporaso T., Worsey M., Espinosa H.G., Thiel D.V., Palomba A., Grazioso S., Panariello D., Di Gironimo G., Lanzotti A.**; A preliminary approach for swimming performance analysis of FISDIR elite athletes with intellectual impairment using an inertial sensor; 2020; 2020 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2020 - Proceedings; ; ; 9138260; 116; 120; ; 10.1109/MetroInd4.0IoT48571.2020.9138260
29. **Lanzotti A., Vanacore A., Tarallo A., Nathan-Roberts D., Coccoresse D., Minopoli V., Carbone F., d'Angelo R., Grasso C., Di Gironimo G., Papa S.**; Interactive tools for safety 4.0: virtual ergonomics and serious games in real working contexts; 2020; Ergonomics; 63; 3; ; 324; 333; ; 10.1080/00140139.2019.1683603
30. **Tarallo A., Carbone F., Di Gironimo G., Coccoresse D., Minopoli V., Lanzotti A., Marzullo D., d'Angelo R.**; An augmented and interactive AID for occupational safety; 2020; 30th European Safety and Reliability Conference, ESREL 2020 and 15th Probabilistic Safety Assessment and Management Conference, PSAM 2020; ; ; ; 1787; 1791; ;
31. **Tarallo A., Carbone F., Di Gironimo G., Coccoresse D., Minopoli V., Lanzotti A., Marzullo D., D'angelo R.**; An augmented and interactive aid for occupational safety; 2020; Proceedings of the 30th European Safety and Reliability Conference and the 15th Probabilistic Safety Assessment and Management Conference; ; ; ; 1787; 1791; ; 10.3850/978-981-14-8593-0_4667-cd
32. **Marzullo D., Di Gironimo G., Dongiovanni D.N., Lanzotti A., Mozzillo R., Tarallo A.**; Iterative and Participative Axiomatic Design Process to Improve Conceptual Design of Large-Scale Engineering Systems; 2020; Lecture Notes in Mechanical Engineering; ; ; ; 492; 505; ; 10.1007/978-3-030-31154-4_42
33. **Gloria A., Domingos M., Maietta S., Martorelli M., Lanzotti A.**; Optimization Design Strategy for Additive Manufacturing Process to Develop 3D Magnetic Nanocomposite Scaffolds; 2020; Lecture Notes in Mechanical Engineering; ; ; ; 948; 958; ; 10.1007/978-3-030-31154-4_81
34. **Grazioso S., Di Gironimo G., Lanzotti A.**; Mechanics-Based Virtual Prototyping of Robots with Deformable Bodies and Flexible Joints; 2020; Lecture Notes in Mechanical Engineering; ; ; ; 444; 457; ; 10.1007/978-3-030-31154-4_38
35. **Caporaso T., Grazioso S., Panariello D., Di Gironimo G., Lanzotti A.**; Understanding the Human Motor Control for User-Centered Design of Custom Wearable Systems: Case Studies in Sports, Industry, Rehabilitation; 2020; Lecture Notes in Mechanical Engineering; ; ; ; 753; 764; ; 10.1007/978-3-030-31154-4_64
36. **Tarallo A., Di Gironimo G., Gerbino S., Vanacore A., Lanzotti A.**; Correction to: Robust interactive design for ergonomics and safety: R-IDEaS procedure and applications (International Journal on Interactive Design and Manufacturing (IJDeM), (2019), 13, 4, (1259-1268), 10.1007/s12008-019-00584-5); 2019; International Journal on Interactive Design and Manufacturing; 13; 4; ; 1269; ; ; 10.1007/s12008-019-00599-y
37. **Tarallo A., Di Gironimo G., Gerbino S., Vanacore A., Lanzotti A.**; Robust interactive design for ergonomics and safety: R-IDEaS procedure and applications; 2019; International Journal on Interactive Design and Manufacturing; 13; 4; ; 1259; 1268; ; 10.1007/s12008-019-00584-5

38. **Ausiello P., Ciaramella S., Di Rienzo A., Lanzotti A., Ventre M., Watts D.C.;** Adhesive class I restorations in sound molar teeth incorporating combined resin-composite and glass ionomer materials: CAD-FE modeling and analysis; 2019; Dental Materials; 35; 10; ; 1514; 1522; ; 10.1016/j.dental.2019.07.017
39. **Lanzotti A., Calise M., Molaro M., Papa S., Patalano S., Renno F.;** ‘Federica’s MOOC’ (Massive Open Online Course): a blended course in engineering drawing at Federico II; 2019; International Journal on Interactive Design and Manufacturing; 13; 3; ; 1115; 1128; ; 10.1007/s12008-019-00575-6
40. **Cascone F.D., Martorelli M., Gloria A., Nathan-Roberts D., Lanzotti A.;** Towards Adaptive Switches through implementation of visual feedback in assistive devices; 2019; 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2019 - Proceedings; ; ; 8792893; 43; 48; ; 10.1109/METROI4.2019.8792893
41. **Grazioso S., Caporaso T., Palomba A., Nardella S., Ostuni B., Panariello D., Di Gironimo G., Lanzotti A.;** Assessment of upper limb muscle synergies for industrial overhead tasks: A preliminary study; 2019; 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2019 - Proceedings; ; ; 8792842; 89; 92; ; 10.1109/METROI4.2019.8792842
42. **Panariello D., Grazioso S., Caporaso T., Palomba A., Di Gironimo G., Lanzotti A.;** Evaluation of human joint angles in industrial tasks using OpenSim; 2019; 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2019 - Proceedings; ; ; 8792847; 78; 83; ; 10.1109/METROI4.2019.8792847
43. **Di Marino C., Rega A., Vitolo F., Patalano S., Lanzotti A.;** The anthropometric basis for the designing of collaborative workplaces; 2019; 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2019 - Proceedings; ; ; 8792836; 98; 102; ; 10.1109/METROI4.2019.8792836
44. **Caporaso T., Grazioso S., Nardella S., Ostuni B., Di Gironimo G., Lanzotti A.;** Biomechanical-based torque reconstruction of the human shoulder joint in industrial tasks; 2019; 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2019 - Proceedings; ; ; 8792879; 73; 77; ; 10.1109/METROI4.2019.8792879
45. **Caporaso T., Grazioso S., Panariello D., Di Gironimo G., Lanzotti A.;** A wearable inertial device based on biomechanical parameters for sports performance analysis in race-walking: Preliminary results; 2019; 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2019 - Proceedings; ; ; 8792831; 259; 262; ; 10.1109/METROI4.2019.8792831
46. **Vitolo F., Patalano S., Rega A., Lanzotti A.;** An autonomous and self-locating handling device for reverse engineering systems; 2019; Proceedings of the 2019 20th International Conference on Research and Education in Mechatronics, REM 2019; ; ; 8744116; ; ; ; 10.1109/REM.2019.8744116
47. **Ausiello P., Ciaramella S., Lanzotti A., Ventre M., Borges A.L.S., Tribst J.P., Dal Piva A., Garcia-Godoy F.;** Mechanical behavior of Class I cavities restored by different material combinations under loading and polymerization shrinkage stress. A 3D-FEA study; 2019; American Journal of Dentistry; 32; 2; ; 55; 60; ;
48. **Gloria A., Martorelli M., Gerbino S., Tagliaferri F., Kräusel V., Lanzotti A.;** Functional analyses to assess the effect of the curing process on the properties of light activated composites; 2019; Production Engineering; 13; 2; ; 239; 246; ; 10.1007/s11740-019-00895-2

49. **Vanacore A., Lanzotti A., Percuoco C., Capasso A., Vitolo B.;** Design and analysis of comparative experiments to assess the (dis-)comfort of aircraft seating; 2019; Applied Ergonomics; 76; ; ; 155; 163; ; 10.1016/j.apergo.2018.12.012
50. **Panariello D., Caporaso T., Grazioso S., Di Gironimo G., Lanzotti A., Knopp S., Pelliccia L., Lorenz M., Klimant P.;** Using the KUKA LBR iiwa Robot as Haptic Device for Virtual Reality Training of Hip Replacement Surgery; 2019; Proceedings - 3rd IEEE International Conference on Robotic Computing, IRC 2019; ; ; 8675685; 449; 450; ; 10.1109/IRC.2019.00094
51. **Cascone F.D., Gironimo G.D., Gloria A., Martorelli M., Lanzotti A.;** An intuitive hardware layout for personalized augmentative and alternative communication systems; 2019; CEUR Workshop Proceedings; 2524; ; ; ; ;
52. **Cascone F.D., Martorelli M., Gloria A., Papa S., Lanzotti A.;** Towards the development of interfaces for students with speech disorder and motor impairments; 2019; Procedia Manufacturing; 38; ; ; 455; 463; ; 10.1016/j.promfg.2020.01.058
53. **Franciosa P., Sun T., Ceglarek D., Gerbino S., Lanzotti A.;** Multi-wave light technology enabling closed-loop in-process quality control for automotive battery assembly with remote laser welding; 2019; Proceedings of SPIE - The International Society for Optical Engineering; 11059; ; ; ; ; 10.1117/12.2526075
54. **Renno F., Lanzotti A., Papa S.;** A statistical approach to simulate instances of archeological findings fragments; 2019; Journal of Automation, Mobile Robotics and Intelligent Systems; 13; 1; ; 46; 64; ; 10.14313/JAMRIS_1-2019/6
55. **Lanzotti A., Martorelli M., Maietta S., Gerbino S., Penta F., Gloria A.;** A comparison between mechanical properties of specimens 3D printed with virgin and recycled PLA; 2019; Procedia CIRP; 79; ; ; 143; 146; ; 10.1016/j.procir.2019.02.030
56. **Lanzotti A., Tarallo A., Carbone F., Coccorese D., D'Angelo R., Di Gironimo G., Grasso C., Minopoli V., Papa S.;** Interactive tools for safety 4.0: Virtual ergonomics and serious games in tower automotive; 2019; Advances in Intelligent Systems and Computing; 822; ; ; 270; 280; ; 10.1007/978-3-319-96077-7_28
57. **Caporaso T., Grazioso S., Vaccaro D., Di Gironimo G., Lanzotti A.;** User-centered design of an innovative foot stretcher for ergometers to enhance the indoor rowing training; 2018; International Journal on Interactive Design and Manufacturing; 12; 4; ; 1211; 1221; ; 10.1007/s12008-018-0483-7
58. **Lanzotti A., Carbone F., Grazioso S., Renno F., Staiano M.;** A new interactive design approach for concept selection based on expert opinion; 2018; International Journal on Interactive Design and Manufacturing; 12; 4; ; 1189; 1199; ; 10.1007/s12008-018-0482-8
59. **Vitolo F., Martorelli M., Gerbino S., Patalano S., Lanzotti A.;** Controlling form errors in 3D printed models associated to size and position on the working plane; 2018; International Journal on Interactive Design and Manufacturing; 12; 3; ; 969; 977; ; 10.1007/s12008-017-0441-9
60. **Penta F., Amodeo G., Gloria A., Martorelli M., Odenwald S., Lanzotti A.;** Low-velocity impacts on a polymeric foam for the passive safety improvement of sports fields: Meshless approach and experimental validation; 2018; Applied Sciences (Switzerland); 8; 7; 1174; ; ; ; 10.3390/app8071174
61. **Gloria A., Maietta S., Martorelli M., Lanzotti A., Watts D.C., Ausiello P.;** FE analysis of conceptual hybrid composite endodontic post designs in anterior teeth; 2018; Dental Materials; 34; 7; ; 1063; 1071; ; 10.1016/j.dental.2018.04.004
62. **Pagliarulo V., Farroni F., Ferraro P., Lanzotti A., Martorelli M., Memmolo P., Speranza D., Timpone F.;** Combining ESPI with laser scanning for 3D characterization of racing tyres

sections; 2018; Optics and Lasers in Engineering; 104; ; ; 71; 77; ; 10.1016/j.optlaseng.2017.07.004

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64. **Lanzotti A., Martorelli M., Russo T., Gloria A.**; Design of additively manufactured lattice structures for tissue regeneration; 2018; Materials Science Forum; 941 MSF; ; ; 2154; 2159; ; 10.4028/www.scientific.net/MSF.941.2154
65. **Patalano S., Vitolo F., Gerbino S., Lanzotti A.**; A graph-based method and a software tool for interactive tolerance specification; 2018; Procedia CIRP; 75; ; ; 173; 178; ; 10.1016/j.procir.2018.04.077
66. **Lanzotti A., Martorelli M., Papa S., Sicignano G., Pepino A., Orrei S., Ciaramella S., Del Giudice D.M., Gloria A., Gerbino S.**; Participatory design of a personalized device for a student with spastic quadriplegia at federico ii; 2018; Advances in Transdisciplinary Engineering; 7; ; ; 339; 349; ; 10.3233/978-1-61499-898-3-339
67. **Papa S., Lanzotti A., Di Gironimo G., Balsamo A.**; A new interactive railway virtual simulator for testing preventive safety; 2018; WIT Transactions on the Built Environment; 181; ; ; 367; 378; ; 10.2495/CR180331
68. **Lanzotti A., Carbone F., Di Gironimo G., Papa S., Renno F., Tarallo A., D'Angelo R.**; On the usability of augmented reality devices for interactive risk assessment; 2018; International Journal of Safety and Security Engineering; 8; 1; ; 132; 138; ; 10.2495/SAFE-V8-N1-132-138

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