

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 led a group of students that won the second prize at the international contest 24h for the innovation organized at the University of Biarritz.

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 100 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 is a visiting researcher at **Fraunhofer IWU**.

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 Barts, Turkey and of Erasmus Exchange with Universidad Politecnica de Madrid, de Valencia, Universidad de Vigo, Barcelona, Huelva, Biarritz, Bordeaux, Chemnitz, Barts, Warwick. He is a member of the International Committee of Federico II.

He is the 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 leaded 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 leaded, 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 DEsign 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 geometric modeling and simulation (resp. S. Patalano);
2. **IDEAinVR**, interactive design and ergonomics applications in virtual reality (resp. G. Di Gironimo);
3. **CREAMI**, center of reverse engineering and additive manufacturing innovation (Resp. M. Martorelli)
4. **SQUARE**, statistics, quality and reliability 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.

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scopus: Author ID: 15063012200

Recent publications:

1. 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 "
2. 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"
3. 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",
4. 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"
5. 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"
6. 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"
7. 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 (IJIDeM), (2019), 13, 4, (1259-1268), 10.1007/s12008-019-00584-5)", 2019, "International Journal on Interactive Design and Manufacturing", "13", "4", "1269"
8. 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"
9. 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. 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"
11. 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"
12. 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"

13. 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"
14. 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",
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17. 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,"
18. 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"
19. Ausiello P., Claramella 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"
20. 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"
21. 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 "
22. 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"
23. 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"
24. 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"
25. 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"

26. 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"
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28. 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"
29. 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"
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31. 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", "
32. 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"
33. 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"
34. Staiano G., Gloria A., Ausanio G., Lanzotti A., Pensa C., Martorelli M., "Experimental study on hydrodynamic performances of naval propellers to adopt new additive manufacturing processes", 2018, "International Journal on Interactive Design and Manufacturing", "12", "1"
35. 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"
36. 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"
37. 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".
38. 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"
39. 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"
40. Ausiello P., Ciaramella S., Martorelli M., Lanzotti A., Gloria A., Watts D.C., "CAD-FE modeling and analysis of class II restorations incorporating resin-composite, glass ionomer and glass ceramic materials", 2017, "Dental Materials", "33", "12", "1456", "1465"

41. Ausiello P., Ciaramella S., Martorelli M., Lanzotti A., Zarone F., Watts D.C., Gloria A., "Mechanical behavior of endodontically restored canine teeth: Effects of ferrule, post material and shape", 2017, "Dental Materials", "33", "12", 1466-1472.
42. Vitolo F., Patalano S., Lanzotti A., Timpone F., De Martino M., "Window shape effect in a single bowden power window system", 2017, "2017 IEEE International Symposium on Systems Engineering, ISSE 2017 - Proceedings", "8088308
43. Patalano S., Lanzotti A., Del Giudice D.M., Vitolo F., Gerbino S., "On the usability assessment of the graphical user interface related to a digital pattern software tool", 2017, "International Journal on Interactive Design and Manufacturing", "11", "3", "457", "469"
44. Ausiello P., Ciaramella S., Fabianelli A., Gloria A., Martorelli M., Lanzotti A., Watts D.C., "Mechanical behavior of bulk direct composite versus block composite and lithium disilicate indirect Class II restorations by CAD-FEM modeling", 2017, "Dental Materials", "33", "6", "690", "701"
45. Di Gironimo G., Caporaso T., Del Giudice D.M., Lanzotti A., "Towards a new monitoring system to detect illegal steps in race-walking", 2017, "International Journal on Interactive Design and Manufacturing", "11", "2", "317", "329
46. Lanzotti A., Vanacore A., Percuoco C., "Robust ergonomic optimization of car packaging in virtual environment", 2017, "Lecture Notes in Mechanical Engineering", "1177", "1186 "
47. Patalano S., Vitolo F., Lanzotti A., "A digital pattern approach to 3D CAD modelling of automotive car door assembly by using directed graphs", 2017, "Mechanisms and Machine Science", "42", "175", "185 "
48. Palumbo B., Del Re F., Martorelli M., Lanzotti A., Corrado P., "Tensile properties characterization of AlSi10Mg parts produced by direct metal laser sintering via nested effects modeling", 2017, "Materials", "10", "2", 144,"
49. Martorelli M., Gerbino S., Lanzotti A., Patalano S., Vitolo F., "Flatness, circularity and cylindricity errors in 3D printed models associated to size and position on the working plane", 2017, "Lecture Notes in Mechanical Engineering", "201", "212",
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54. Gerbino S., Del Giudice D.M., Staiano G., Lanzotti A., Martorelli M., "On the influence of scanning factors on the laser scanner-based 3D inspection process", 2016, "International Journal of Advanced Manufacturing Technology", "84", "9-12", "1787", "1799"
55. Lanzotti A., Patalano S., "Improving the robustness of mechatronic systems", 2016, "Mechatronic Futures: Challenges and Solutions for Mechatronic Systems and Their Designers", "113", "128"

56. Martorelli M., Lepore A., Lanzotti A., "Quality analysis of 3D reconstruction in underwater photogrammetry by bootstrapping design of experiments", 2016, "International Journal of Mechanics", "10", "39", "45"
57. Patalano S., Vitolo F., Lanzotti A., "Automotive power window system design: Object-oriented modelling and design of experiments integration within a digital pattern approach", 2016, "Mechanics and Industry", "17", "5", 505
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