

PERSONAL INFORMATION

PhD. Eng. Cristiano Fragassa

SHORT PROFILE

M.Sc. in Nuclear Engineering, Ph.D. in Engineering of Materials and Post-PhD in Reliability&Safety in Industrial Applications at the University of Bologna. He has been assuming several roles inside this and other Higher Education Institutions throughout Europe. In his actual position of Assistant Professor in Bologna, he has performed an intense teaching activity in courses related to the topics of Industrial Engineering as Engineering of Industrial Products; Advanced Techniques for Calculations; Machine Learning; Security and Reliability of Mechanical Systems; Functional and Aesthetical Design of Systems. As Contract Professor, he performed academic courses on similar topics in Milano and Reggio Emilia (Italy), Belgrade and Kragujevac (Serbia), Rijeka (Croatia), Sofia (Bulgaria). As Contract Researcher, he has been implementing a constant and fruitful research activity, both at the levels of scientific investigations and industrial innovation. Author of more than 250 contributions between scientific articles and industrial memories. He participated to more than 60 congresses and workshops all over the World and over 20 invited lectures. He is also very active in Transfer of Technology actions for the benefit of local and international enterprises, including SMEs and start-ups, also considering training courses in applied engineering. In addition, he has been assuring a continuous action in fund raising, assuring about 8M€ as total income, for start-ups establishment, joint R&D projects and internationalisation, and in project management within national and EU funded research/collaborative projects. He took relevant parts, as coordinator, supervisor or main investigator, in more than 25 international projects and over 40 national actions. Finally, since 2009, he is external evaluator and expert for the EU Commission, the Italian Ministry of Economic Development, and other national and foreign Institutions involved in the regional development worldwide (such as Serbia, Kazakhstan, Poland, Denmark, Turkey, Brazil, Azerbaijan). He globally evaluated more than 150 R&S projects in the years, supervising the implementation of some of them, including large actions (over 5M€), both for the Italian Government and EU Commission. Since 2017, he has been assigned of various relevant roles inside the Italian Ministry of Education, Universities and Research, as senior expert at the service of General Directorate for Research in relation to the EU funding programmes (as National Operative Programmes) where, in team with other experts, he took care of the closing phases of the EU programmes and their reporting. These experiences, together with the participation in several Scientific Committees, have permitted him to establish a wide experience in projects & programmes evaluation or management and a large network of professional relations.

EDUCATION

- | | |
|-----------------------------|---|
| 2001 January - 2004 April | <p>PhD Degree in Mechanics of Materials
 University of Bologna, Doctoral School in Mechanics of Materials (http://www.unibo.it)
 • Thesis: "<i>Reliability and Safety of Industrial Systems</i>" passing mark of 100 on 100</p> |
| 1991 September - 1999 March | <p>M. Sc. Degree in Nuclear Engineering
 University of Bologna, Faculty of Engineering
 • Thesis: "<i>Calibration of an ionic beam using nuclear resonances energy</i>" passing mark of 110 on 110 performed at the Italian National Council of Research (CNR) (https://area-new.bo.cnr.it/en/)</p> |
| 1987 September - 1991 July | <p>High School Degree in Science
 Second Level College of Science "L. Da Vinci", Pescara (Italy) (http://www liceodavincipescara.it)</p> |

TRAINING

- 2012 July – 2014 December **Industrial Scholarship in Design and Optimisation of Production Machines**
SCM Group Spa, a global leading manufacturer (<https://www.scmgroup.com/en>),
funded by Province of Siena / Monte dei Paschi di Siena
- 2005 January – 2008 December **Post-PhD equivalent Scholarship in Maintainability of Industrial Systems**
University of Bologna, Dept. of Industrial Engineering
- 1999 July – 2001 November **Researcher Scholarship on Reliability and Maintainability**
Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)
(<http://www.bologna.enea.it>)
- 1998 July – 1999 May **Internship on Physics and Matter Technologies**
Laboratory of Chemistry and Technology of Materials and Components for Electronics (now Institute of Microelectronics and Microsystems) of the National Research Council (CNR) in Bologna.

PERSONAL SKILLS

Languages

Italian (Mother tongue); English (C1); Serbian (beginner)

MAIN WORK EXPERIENCE

- 2011 July – present **Senior Researcher / Principal Investigator**
Alma Mater Studiorum University of Bologna
- ✓ Department of Industrial Engineering (<https://ingegneriindustriale.unibo.it/>)
 - ✓ Interdepartmental Centre for Industrial Research in Advanced Applications in Mechanical Engineering and Materials Technology (<http://www.mam.unibo.it/>)
 - ✓ Interdepartmental Centre for Industrial Research in Aerospace
 - ✓ Department of Agricultural and Food Sciences (<https://distal.unibo.it/en>)
- 2017 July – 2020 June **Senior Scientific Consultant**
Ministry of Education, Universities and Research - Directorate General for Research Coordination, Promotion and Valorisation on Regional Development Fund (ERDF), European Social Fund (ESF), National Operative Programmes 2014-2020 and 2007-2014. (<http://www.miur.it>)
- 2005 January – 2011 December **R&S Lab Coordinator and Researcher**
National Research Laboratory of Advanced Mechanics and Materials (MATMEC)
- 2004 January – 2008 December **Coordinator and Contract Professor**
University of Bologna - Institute of Advanced Study (IAS) (<http://www.ias.unibo.it/>)
- 1996 September – 1998 June **Scientific Software Developer**
University of Bologna - Dept. Fruit Tree & Woody Plant Sciences (<http://www.agrsci.unibo.it/dicabof>)
- 2006 June – present **Industrial Consultant**
collaborations with
- Enterprises: ABB, Alstom, Avio, Bonfiglioli, Ducati, Edison, Fiat Group, Ferrari, Loctite, Magneti Marelli, Scm Group, Zastava (RS), Aetna Robopack, Ancora, Faam, Nier Ingegneria, Ocean, Riba Composites and a large number of SMEs in Italy.
- Universities: Banja Luka (BiH), Belgrade (RS), Berlin (D), Brasov (RO), Braunschweig (D), Buenos Aires (AR), Chicago (US), Cranfield (UK), Delft (NL), Hebrew (IL), Glasgow (UK), Kotor (MN), Kragujevac (RS), Novi Sad (RS), Nis (RS), Podgorica (MN), Rijeka (HR), Rio Grande Do Sul (BR), Shanghai (CN), Sofia (BG), Wroclaw (PL).
- R&D Centers: CNR, T3LAB, SUPSI (CH), C3M (SL), CEUB, Centro Ceramico, CNA, CRIT, ENEA, ERAMIAT (BE), Instrade (US)

ACADEMIC ACTIVITY

2001 September – present

Assistant Professor

University of Bologna - School of Engineering and Architecture [<http://www.engineeringarchitecture.unibo.it/en/>]

- Course in "Reliability and Safety of Mechanical Structures" – since 2013/14 to date
- Course in "Design of Machine" (holder: Sergio Curioni) - 2004/05
- Course in "Elements of Machine" (holder: Sergio Curioni)- 2003/04, 2004/05, 2005/06
- Course in "Product Engineering" (holder: Sergio Curioni) - 2007/08, 2008/09, 2009/10
- Course in "Concepts and Methods for Machine Design" - 2002/03, 2003/04, 2004/05
- Course in "Reliability and Safety of Mechanical Structures" - 2009/10, 2010/11

University of Modena and Reggio Emilia - Faculty of Engineering [<http://www.unimore.it/ateneo/ingegneriari.htm>]

- Course in "Reliability and Safety of Mechanical Structures" - 2001/02, 2002/03

2003 September – 2011 June

Teacher for Vocational Training

- Professional Training Course in "Expert for Foundry Processes" (2010-2011)
- Professional Training Course in "Mechanical Designer in Industrial Automation" (2009-2010)
- Professional Training Course in "Wood Technology", Industrial Association Rimini Municipality (2002)
- Master Course in "Industrial Design", School of Industrial Design of Bertinoro, (2003/04)
- Master Course in "Italian Design Summer School", University Residential Centre of Bertinoro (2009)

2001 September – present

Visiting Professor / Researcher

- University of Belgrade - Faculty of Mechanical Engineering, Serbia
- University of Kragujevac - Faculty of Engineering in Kragujevac, Serbia
- University of Rijeka – Faculty of Mechanical Engineering, Croatia
- University of Montenegro – Faculty of Mechanical Engineering in Podgorica, Montenegro
- University of Rio de Janeiro – Faculty of Engineering, Brazil
- Technical University of Berlin, Germany
- Technical University of Delft, Nederland
- West of England (UWE Bristol), UK

INVITED LECTURES

- | | |
|-------------------|---|
| 07.02.2007 | Faculty of Engineering, University of Bologna
<i>"Experimental analysis and FEM simulation for the geometry optimization of an automotive device"</i> |
| 07.05.2007 | Faculty of Mechanical Engineering, University of Belgrade
<i>"Experimental tests and quality methodologies as a roadmap for the Industrial Design process"</i> |
| 10.05.2007 | 6th Imeko - Youth Symposium on Experimental Solid Mechanics, Vrnjačka Banja, Serbia
<i>"Experimental Testing Methods As Fundamental Approach for Improving The Reliability of Large-Mass Industrial Products"</i> |
| 16.10.2007 | Polytechnic of Milano, IMAPS Congress
<i>"Theoretical and Experimental Methods as integrated approach to improve the reliability of mechatronic components in automotive industry"</i> |
| 06.09.2009 | Higher School of Transport Todor Kableshkov di Sofia
<i>"Practical overview of tools and methods for the quality improvements in the transport industry"</i> |
| 18.05.2009 | Faculty of Mechanical Engineering, University of Kragujevac
<i>"Design and manufacturing a testing machine for a fast application of complex fatigue loads"</i> |
| 10.04.2010 | Institute for Advanced Studies, Bologna
<i>"How to improve Safety&Reliability in the Industrial Design"</i> |
| 26.03.2010 | Faculty of Mechanical Engineering, University of Kragujevac
<i>"Theoretical and Experimental Methods For Reliability Improving of Automotive Devices"</i> |
| 14.03.2010 | Serbian Academy of Science and Arts, Belgrade
<i>"Numerical Simulation for Investigating the Contact Problems in Industrial Life"</i> |

SCIENTIFIC COMMITTEES

Editorial Boards

- *Facta Universitatis, Series: Mechanical Engineering*. University of Nis, Serbia. ISSN: 0354-2025. (Co-Editor)
- *FME Transactions*. University of Belgrade, Belgrade, Serbia. ISSN: 1451-2092.
- *International Journal of Quality Research*. U. of Montenegro and Kragujevac, ISSN: 1800-6450
- *International Journal of Engineering and Technology*, Science Publishing. ISSN: 2227-524X.
- *Journal of Marine Science and Engineering*. MDPI, Basel, Switzerland. ISSN: 2077-1312.
- *Metals*. MDPI, Basel, Switzerland. ISSN: 075-4701
- *Sci*. MDPI, Basel, Switzerland. ISSN 2413-4155
- *Reports in Mechanical Engineering*, Front Press. ISSN 2683-5894

Peer Reviewer (main journals)

- *Advanced Sustainable Systems*, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim: ISSN: 2366-7486
- *Advances in Applied Ceramics*. Taylor & Francis Group, London, UK. ISSN: 1743-6753 Online ISSN: 1743-6761
- *Applied Science*. Multidisciplinary Digital Publishing Institute Publication (MDPI). Basel, Switzerland. ISSN 2076-3417
- *British Journal of Economics, Management & Trade (BJEMT)*. Science Domain International, London, UK, ISSN: 2278-098X
- *Ciência & Tecnologia dos Materiais (Science & Technology of Materials)*. Elsevier. Amsterdam, NL, ISSN: 0870-8312
- *Composite Structures*. Elsevier. Amsterdam, NL, ISSN: 0263-8223
- *Composites Part A: Applied Science and Manufacturing*. Elsevier. Amsterdam, NL, ISSN: 1359-835X
- *Composites Part B: Engineering*. Elsevier. Amsterdam, NL, ISSN: 1359-8368
- *Composites Part C: Open Access*. Elsevier. Amsterdam, NL, ISSN: 2666-6820
- *Engineering Science and Technology*, Elsevier, Amsterdam, ISSN: 2215-0986
- *Entropy*, Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland, ISSN 1099-4300
- *Facta Universitatis, Series: Mechanical Engineering*. University of Nis. ISSN: 0354-2025
- *FME Transactions*. Belgrade University, Belgrade, Serbia. ISSN: 1451-2092
- *Industrial Crops and Products*. Elsevier. ISSN: 0926-6690
- *International Journal for Quality Research*, Publisher: Center for Quality Montenegro. ISSN: 1800-6450
- *International Journal of Energy Applications and Technologies*. Dergi Park Akademik, Turkey. eISSN: 2548-060X
- *International Journal of Environment and Pollution*. Inderscience Pub.. ISSN: 1741-5101
- *International Journal of Mechanical Science*. Elsevier B.V. Amsterdam, NL. ISSN: 0020-7403
- *International Journal of Simulation Modelling*. Vienna University of Technology. Wien, Austria, ISSN: 1726-4529
- *International Journal of Structural Integrity*. Emerald Publishing 1757-9864
- *International Journal of Vehicle Design*. Inderscience, Genève, CH, ISSN: 0143-3369
- *Journal of Basic and Applied Research International*. International Knowledge Press, Manchester, UK. ISSN: 2395-3438.
- *Journal of Chemical Engineering and Materials Science*. Academic Journals
- *Journal of Composite Materials*. SAGE
- *Journal of Elastomers & Plastics*. SAGE
- *Journal of Environment and Pollution*. Inderscience Publishers
- *Journal of Global Economics, Management and Business Research*. I. Knowledge Press, Manchester, UK. ISSN: 2454-2504.
- *Journal of King Saud University - Engineering Sciences*. Elsevier, NL. ISSN: 1018-3647
- *Journal of Marine Science and Engineering*. MDPI, Basel, Switzerland. ISSN: 2077-1312
- *Journal of Mechanics Engineering and Automation (JMEA)*. David Publishing Company, NY, USA. ISSN: 2159-5275.
- *Journal of Quality in Maintenance Engineering*. Emerald Group Publishing, Bingley, UK. ISSN: 1355-2511
- *Journal of Scientific Research and Reports*. Science Domain International. ISSN: 2320-0227
- *Letters in Organic Chemistry*. Betham Science. ISSN: 1875-6255
- *Materials and Design*. Elsevier. Amsterdam, NL. ISSN: 0264-1275
- *Materials*. Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland. ISSN: 1996-1944
- *Metals*. Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland. ISSN: 2075-4701
- *Open Mechanical Engineering Journal*. Bentham Open. ISSN: 1874-155X
- *Polymer Composites*. Wiley-Blackwell. Hoboken, US. ISSN: 0272-8397
- *Polymers*. Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland. ISSN 2073-4360
- *Proc. of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*. SAGE. ISSN: 0954-4062
- *Proc. of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*. SAGE. ISSN: 0954-4100
- *Proc. of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*. SAGE ISSN: 1748-006X.
- *Processes*. Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland. ISSN 2227-9717
- *Regenerative Engineering and Translational Medicine*. Springer Nature, CH, ISSN: 2364-4133
- *Smart Innovation, Systems and Technologies Series*. Editors: R. Howlett et al., Springer, CH. ISSN: 2190-3018.
- *The Open Mechanical Engineering Journal*. Bentham Open. ISSN: 1874-155X
- *Thin-Walled Structures*. Elsevier. ISSN: 0263-8231
- *Turkish Journal Agricultural and Forestry*, Tubitak, Istanbul, Turkey. ISSN: 1300-011X

HONORS & AWARDS

- 2003 May **Finalist Winner**
- *"StartCup – From Idea to Business"* regional competition by Emilia Romagna Region with the start-up proposal: "RAMSES - Reliability Availability, Maintainability & Safety for Engineering of Systems"
- 2013 April **Honorable Mention**
- *"Ingegnere Pedriali"* national competition on Research & Innovation by Forlì – Cesena Province, Italy
- 2017 September **AIAS Simulation Award**
- Award for the best simulation work represented in the video *"Numerical Study of Low Velocity Impact on BioComposites"* released by the Italian Scientific Society of Mechanical Design and Machine Construction. (07-09-2017)
- 2018 July **Technological Prize**
- *"Best Solar Vehicle Engineering Design"* at the American Solar Challenge, by Innovators Educational Foundation, US, *'with particular consideration for the skilful use of composite materials'* in reference to the solar vehicle created inside the 'Onda Solare' project. This complex design and construction intervention involved several technicians and engineers for years. For my part, in addition to dealing with general coordination, I completed various essential phases of material design, structural design, safety studies, optimization of components. I, then, followed many of the different stages of building, assembling and testing structures and parts. About 40 vehicles from various universities including MIT, Michigan, Georgia Tech, Harvard competed for this prize. (Portland, 22-07-2018)

PATENTS

Issued	Code	Patent Type	Title
08/11/2010	PS2010A000026	EU Utility	Rapid process for creating a mould in composite material and related material
09/04/2019	PS102019000005408	EU Utility	Polymeric Joint for Terrain Light Vehicles Suspensions
23/04/2019	006387387	EU Design	Solar Vehicles
20/06/2020	PS102020000013711	EU Utility	Fixing Device with Safety Release Function, made by Additive Manufacturing
07/06/2022	PS102022000012050	EU Utility	Integrated device for the dosage, mixing and fast nebulization of suspension chemical substances for the purpose of cleaning and sanitizing surfaces and environments
under submission		EU Utility	Field Sensor Network for Safety and Agro-environmental Monitoring in Precision Agriculture

CERTIFICATIONS

- April 2020 – National Scientific Qualification, Associate Professor
Industrial Design, Mechanical Construction and Metallurgy
- June 2018 – Independent Expert in FP7 and H2020 (> 20 projects evaluated)
- Independent Expert in Eureka – Eurostar Programmes (6 projects)
- October 2017 – Independent Expert for Italian Ministry of Education, Universities and Research (MIUR)
- March 2017 – International Expert for Foreign Institutions in Kazakhstan, Serbia, Poland, Turkey, Denmark, Scotland, Denmark, Ukraine, Austria (> 150 projects)
- September 2015 – Independent Expert and SMEs Coacher in Implementation of EU programs for Cohesion Policy Regional and Urban Development
- January 2012 – Technical Expert for National Institutions and Development Agencies in Calabria, Piemonte, Valle D'Aosta, Sardinia, Liguria, Friuli Venezia Giulia
- May 2010 – Independent Expert for the Italian Ministry of Economic Development (MiSE) with several (>6) large projects (>3M€) evaluated and supervised.
- August 2009 – Independent Expert for the EU Institute of Innovation and Technology (EIT)
- June 2000 – Qualifying Degree to Italian Engineers Register

INTERNATIONAL PROJECTS

- 2021-2022 **Horizon 2020**
'WeLASER – Sustainable Weed Management in Agriculture with Laser-Based Autonomous Tools'
 aims to merge current technologies to build, assess and push into the market a precision weeding system based on high-power laser sources and autonomous mobile systems with the main objective of eliminating the use of herbicides while improving productivity and competitiveness
 Partnership: Centre for Automation and Robotics (ES), University of Bologna and other EU institutions.
[\[https://welaser-project.eu/\]](https://welaser-project.eu/)
 Role: Contract Researcher (AI use into Precision Agriculture)
- 2021-2022 **Central Europe Initiative**
'An Evolution of the Automotive Training Centre Serbia toward the Concepts of Light and Sustainable Mobility'
 Partnership: Polytechnic School Kragujevac (Serbia), University of Bologna, U. of Arts of Belgrade, U. of Novi Sad and Nis, Rijeka, Ljubljana,
 Role: Partner's Coordinator
- 2018-2016 **Erasmus Plus, EACEA, Social inclusion through education, training and youth**
"LIKE HOME - Assessing and recognising the prior learning of migrants. Bridging the gap and paving the road to educational and social integration"
 Partnership: University of Alicante; EuroTraining; EFVET; Landkreis Kassel; Folkuniversitetet; EOPEER; die Berater Unternehmensberatungs; Austrian Young Workers Movement.
 Role: Partner's Coordinator
- 2016-2012 **EU IPAADRIATIC CBC Programme 2007-2013**
"ADRIA HUB - Bridge technical differences and social suspicions contributing to transform the Adriatic area in a stable hub for a sustainable technological development"
 Partnership: University of Bologna, Alma Laurea, CNA Ravenna, SCM Rimini, Friuli Innovazione, MetaVeneto, UTECO Pesaro, Serbia, Bosnia & Herzegovina, Montenegro, Croatia.
 Role: Project Coordinator
- 2015-2013 **FET – CSA Programme - Coordinating Action (CA)**
"EYE - Empowering Young Explorers"
 Partnership: Technical University of Delft, University of Bologna, Manchester, Belgrade, Chalmers and other partners
 Role: Local Coordinator & Trainer
- 2015-2012 **TEMPUS Joint European Project 516729-2011**
"DIAUSS - Development and Improvement of Automotive and Urban Engineering Studies in Serbia"
 Partnership: University of Kragujevac, Bologna, Turin, Nis, Novi Sad, Novi Pazar, Polytechnic School Kragujevac...
 Role: Local Coordinator & Trainer
- 2014-2012 **Italian Ministry of Economic Development - Accordo Quadro MISE-ICE-CRUI 2010**
"ROBOTRAINING",
 Partnership: University of Bologna, University of Arts of Belgrade, Polytechnic School Kragujevac, RIBA Composites, MetalTig, GMG, Montecatone Hospital
 Role: Coordinator
- 2013-2011 **Italian Ministry of Environment**
"DeUrbisVento – Microeolic plants used in urban context with a double role as production and saving of energy"
 Partnership: University of Bologna, WIND Aeronautics, CEPA
 Role: Coordinator

- 2013-2011 EU Regional Socio-Economic Development Program 2
"ATC – Automotive Training Centre in Central Serbia",
Partnership: University of Bologna, Polytechnic School Kragujevac (Serbia), ZASTAVA (Serbia), FIAT, Chamber of Commerce Kragujevac (Serbia), University of Kragujevac (Serbia)
Role: Coordinator
- 2013-2011 EU Regional Socio-Economic Development Program 2
"IMPuls – Innovation Management for new Products"
Partnership: University of Kragujevac (Serbia), University of Bologna, Regional Chamber of Commerce Kraljevo; City of Kraljevo; Regional Centre for Small and Medium Sized Enterprise Development Kruševac. Budget: 966.624€
Role: Proposal Definition and Supervision during the Implementation
- 2011-2008 Italian Ministry of Economic Development - Accordo Quadro MISE-ICE-CRUI 2008
"Alma@Service - Composite Materials in Rail Transport",
Partnership: University of Bologna, University of Kragujevac (Serbia), Federal University of Niteroi (Brazil), KTH Stockholm (Sweden), CRA Cranfield (UK)
Role: Researcher
- 2011-2008 FP7 – REG POT.
"SeRViCE - Strengthening Railway Vehicles Centre of Faculty of Mechanical Engineering Kraljevo"
Partnership: University of Kragujevac (Serbia), University of Bologna, Todor University Sofia...
Role: Researcher
- 2011-2008 Eurostar 2007 – EUREKA Program
"CCT – Clean Custom Tool"
Partnership: Wirutex (SME - IT), University of Bologna, SUPSI, Podium (SME - CH),
Role: Local Coordinator & Researcher
- 2011-2008 Manunet Transnational Programme 2008
"HiCut – High speed cutting for wood products"
Partnership: Cofiplast (SME - IT), MC Engineering (SME - IT), MV Engineering (SME - D), C3M (SME - SL), Eurotungstene Poudres S.A (SME - CH)
Role: Consultant

NATIONAL PROJECTS (main)


- 2012-2014 POR-FESR Emilia-Romagna - "From Productive Districts to Technological Districts"
Partnership: several enterprises from the territory (8 actions, ~800.000€)
Role: general coordination, scientific supervision, development of specific engineering solutions, training for newly hired staff, reinforcement of the industrial supply chains in relation to the issues:
1. Study of Accelerated Methods of Qualification of Components for Transmission Organs
 2. Innovative Techniques for the Production of Large Ceramic Tiles
 3. Chemical Smoothing in the development of Ceramic Products with Incremented Functionalities
 4. Metal Replacement and Manufacturing Solutions in the Wind Sector
 5. Machin Vision Solutions in Precision Mechanics in CNC Machines
 6. Ferrous Alloys and Fusori Processes with Low Environmental Impact
 7. Modern use of wood as a natural material through new CNC machining solutions
 8. Conversion Technologies and Energy Flows Management in Production Processes
- 2016-2017 POR-FESR Emilia-Romagna - Axis 1 - Research and Innovation
Partnership: several enterprises from the territory (8 actions, ~800.000€)
Role: partner coordinator, development of engineering solutions
1. Project ' IperCer - Innovation in Process for a Sustainable Ceramic Tile ' - € 1,403,043
 2. Project ' OndaSolare - a vehicle from the future: from the idea to the prototype in 24 months ' - € 979,500


BIBLIOMETRICS

Fragassa, Cristiano



Scopus Preview

 <http://orcid.org/0000-0003-0046-8810>

Affiliation(s): 

Alma Mater Studiorum Università di Bologna, Bologna, Italy

View less ^

Subject area:

Engineering Materials Science Physics and Astronomy Decision Sciences Computer Science Chemical Engineering
Environmental Science Agricultural and Biological Sciences Chemistry Social Sciences Mathematics Neuroscience Energy
Immunology and Microbiology Business, Management and Accounting Biochemistry, Genetics and Molecular Biology

Documents by author

132

Total citations

1758

documents

Citations by 864 documents

h-index: 

22

MAIN PUBLICATIONS

ADVANCED SOLUTIONS IN ENGINEERING DESIGN

1. Fragassa C, Pavlovic A, Massimo S (2014) Using a Total Quality Strategy in a new Practical Approach for Improving the Product Reliability in Automotive Industry. *Int. J. Quality Research*, Vol. 8, No. 3: pp 297–310
2. Pavlovic A, Fragassa C (2015) General considerations on regulations and safety requirements for quadricycles. *International Journal for Quality Research*, Vol. 9, No. 4: pp. 657–674
3. Pavlovic A, Fragassa C (2016) Analysis of flexible barriers used as safety protection in woodworking. *International Journal of Quality Research*, Vol. 10, No. 1: pp 71-88
4. Lucisano G, Stefanovic M, Fragassa C. (2016) Advanced Design Solutions for High-Precision Woodworking Machines. *International Journal of Quality Research*, Vol. 10, No. 1: pp 143-158
5. Fragassa C (2017) Material selection in machine design: the change of cast iron for improving the high-quality in woodworking. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*. Vol 231, No. 1, pp. 18-30. DOI: 10.1177/0954406216639996.
6. Fragassa C, Ippoliti M. (2016) Failure Mode Effects and Criticality Analysis (FMECA) as a quality tool to plan improvements in Ultrasonic Mould Cleaning Systems. *Int. J. for Quality Research*. Vol. 10, No. 4, pp. 847-70
7. Pavlovic A, Fragassa C, et al. (2016). Modal analysis and stiffness optimization: the case of a tool machine for ceramic tile surface finishing. *J. Serbian Society Computational Mechanics*, Vol. 10.2: pp 30-44.
8. Slijivic, Pavlovic, Stanojevic, Fragassa (2016) Combining additive manufacturing and vacuum casting for an efficient manufacturing of safety glasses. *FME Transactions*: Vol. 44, No. 4: 393-397.
9. Vannucchi de Camargo F, Fragassa C, Pavlovic A, Martignani M (2017) Analysis of the Suspension Design Evolution in Solar Cars. *FME Transactions*: Vol. 45, No. 3, pp. 394-404.
10. Martins LR, Guimaraes GP, Fragassa C (2018). Acoustical performance of Helmholtz resonators used as vehicular silencers. *FME Transactions*, Vol 46, N. 4, pp. 497-502
11. Beno P, Krilek J, Kovac J, Kozak D, Fragassa C (2018) The Analysis of the New Conception Transportation Cableway System Based on the Tractor Equipment. *FME Transactions*: Vol. 46, No. 1, pp. 17-22.
12. Lukic L, Djapic M, Fragassa C, Petrovic A, Pavlovic A (2018) Optimization Model for Machining Processes Design in Flexible Manufacturing Systems. *J. Advanced Manufacturing Systems*. Vol 17, No. 2, 137-153.
13. Fragassa C, Minak G, Sassatelli M (2019) Reducing Defects in Composite Monocoque Frames. *FME Transactions*. 47(1), pp. 48-53, DOI: 10.5937/fmet1901048F.
14. Minak G., Brugo TM, Fragassa C (2019) Ultra-high-molecular-weight polyethylene rods as an effective design solution for the suspensions of a Cruiser-Class Solar Vehicle. *International Journal of Polymer Science*. Volume 2019, Article ID 8317093, <https://doi.org/10.1155/2019/8317093>
15. Fragassa C (2019). Engineering Design Driven by Models and Measures: the Case of a Rigid Inflatable Boat. *Journal of Marine Science and Engineering*, Vol. 7, No. 6; doi:10.3390/jmse7010006.
16. Campione I., Fragassa C, Martini A (2019): Kinematics optimization of the polishing process of large-sized ceramic slabs. *International Journal of Advanced Manufacturing Technology*. Vol. 103, Issue 1-4, 1325-1336.
17. Magalhães GMC, Fragassa C (2020). Numerical Analysis of the Influence of Empty Channels Design on Performance of Resin Flow in a Porous Plate. *Applied Sciences*, 10(11), 4054
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