

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

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Part I - General Information

Full Name	Marco Ricci
Date of Birth	
Place of Birth	
Citizenship	
Permanent Address	
Mobile Phone Number	
E-mail	
Spoken Languages	Italian, English

Part II - Education

Type	Year	Institution	Notes
University graduation	2002	University of Roma "La Sapienza"	"Laurea" degree in Physics, 110/110 Thesis Topic: Quantum information and quantum measurement theory, quantum optics. Supervisor: Prof. Francesco De Martini.
Ph.D.	2006	University of Roma "La Sapienza"	PhD in Physics, Research Topic: Quantum information and quantum measurement theory, quantum optics. Supervisor: Prof. Francesco De Martini.

Part III – Appointments

III/A - Academic Positions			
Start	End	Institution	Position
30 Dec. 2016	--	University of Calabria, Department of Informatics, Modeling, Electronics and System Engineering (DIMES)	Associate Professor of Electrical Engineering (ssd. IIET-01/A – Elettrotecnica, ex. ssd ING-IND/31).
10 Sep. 2007	29 Dec. 2016	University of Perugia, Department of Engineering, (former Department of Industrial Engineering)	Researcher (Ricercatore Tempo Indeterminato) of Electrical Engineering (ssd ING-IND/31 - Elettrotecnica).
15 Dec. 2005	9 Sep. 2007	University of Perugia, Polo Scientifico Didattico di Terni	Research Grant (Assegno di Ricerca, ssd ING-IND/31 – Elettrotecnica), Topic: Development of numerical models for electromagnetic non-destructive evaluation applications.

III/B - Other Appointments & Work Experiences			
Start	End	Institution	Position
2024/25	--	University of Calabria	Director of the "Classe A040 – Scienze elettriche ed elettroniche", Percorsi formativi 60 - 36 - 30 CFU - DPCM 04/08/2023 e del DM 59/2017.
10 April 2022	--	University of Calabria,	Representative for the University of Calabria within the "Italian SPINtronic Network Consortium - SPINet" between Polytechnic University of Bari, University of Messina and University of Calabria.

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29 July 2020	--	University of Calabria, DIMES Department	Deputy Coordinator of the bachelor's and master's Courses on Electronical Engineering and Delegate for the Orientation.
1 Mar. 2005	31 Aug. 2005	Istituto Nazionale per la Fisica della Materia	Research Grant Title of the research project: Applications of the quantum cloning to measurement protocols and to the transmission of quantum information.
1 Feb. 2004	1 Aug. 2004	Istituto Nazionale per la Fisica della Materia	Research Grant Title of the research project: Experimental implementation of quantum cloning and quantum purification protocols by means of linear optics.
12 Dec. 2002	1 Aug. 2003	Istituto Nazionale per la Fisica della Materia	Research Grant Title of the research project: Development of a Fock-states detector and of quantum-states interferometer.

Part IV - Teaching experience

IV/A - Teaching experience in Bachelor's and Master's degrees		
Academic Year	Institution	Course
From A.A. 2019/20 ongoing	University of Calabria DIMES Dept.	Lecturer of the course: “Energy management of electric and hybrid vehicles” (IIET-01/A, ex ING-IND/31 - 6CFU), master's degree in electronic engineering (LM-29 – Ingegneria Elettronica).
From A.A. 2016/17 ongoing	University of Calabria DIMES Dept.	Lecturer of the course: “Electrotechnics” (IIET-01/A, ex ING-IND/31 – 9 CFU), bachelor's degree in electronic engineering (L-8 R – Ingegneria dell'informazione).
From A.A. 2016/17 to A.A. 2023/24	University of Calabria DIMES Dept.	Lecturer of the module: “Electrotechnics” (ING-IND/31 – 6 CFU) of the course “Electromagnetism and Electrotechnics” (ING-IND/31 – 12 CFU), bachelor's degree in computer engineering (L-8 R – Ingegneria dell'informazione).
A.A. 2023/24 A.A. 2024/25	University of Calabria DFSSN Dept.	Lecturer of the course: “Elements of electromagnetism and circuit theory” (ING-INF/02 – 6CFU), master's degree (single cycle) in Medicine and surgery – Digital Technologies, Course shared with Prof. Sandra Costanzo (LM-41 R Medicina e chirurgia).
A.A. 2018/19	University of Calabria DIMES Dept.	Lecturer of the course: “Electrotechnics” (ING-IND/31 – 6 CFU), bachelor's degree in chemical engineering (L-9 R – Ingegneria industriale).
A.A. 2015/16	University of Perugia Dept. of Engineering	Lecturer of the module: “Electrical engineering for the control of industrial processes- B” (ING-IND/31 – 6 CFU) of the course of “Electrical engineering for the control of industrial processes” (ING-IND/31 -12 CFU), master's degree in industrial engineering Magistrale, (LM-33 Ingegneria Industriale).
A.A. 2014/15	University of Perugia Dept. of Engineering	Lecturer of the module: “Processing for nondestructive evaluation” (ING-IND/31-6 CFU) of the course of “Circuit Theory” (ING-IND/31-12 CFU), master's degree in industrial engineering (LM-33 Ingegneria Industriale).
From A.A. 2010/11 to A.A. 2013/14	University of Perugia Dept. of Engineering	Lecture of the module: “Circuit Theory” (ING-IND/31-6 CFU), of the course of “Circuit Theory” (ING-IND/31-6CFU), master's degree in industrial engineering, (LM-33 Ingegneria Industriale).
From A.A. 2010/11 to A.A. 2011/12	University of Perugia Faculty of Engineering	Lecture of the module: “Electrotechnics 2” (ING-IND/31 – 3CFU) of the course “Electrotechnics” (ING-IND/31 – 3CFU), bachelor's degree in engineering management and information engineering (L-8 Ingegneria dell'Informazione).

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From A.A. 2007/08 to A.A. 2010/11	University of Perugia Faculty of Engineering	Lecturer for the Course of "Electrical systems for energy", (ING-IND/31 – 4 CFU) bachelor's degree in Energetic Engineering (Classe 10, D.M. 509/99).
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IV/B - Teaching experience in PhD's courses and in post-graduate courses		
Year	Institution	Course
From A.A. 2024/25	University of Calabria DIMES Dept.	Lecturer of the course: "Data Analysis & Signal Processing for Electrical Engineering Applications" (IET-01/A, 2 ECTS), PhD school in Information and Communication Technologies (Course shared with Stefano Laureti)
From A.A. 2020/21 to A.A. 2022/23	University of Calabria DIMES Dept.	Lecturer of the course: "Statistical data analysis and signal processing techniques for imaging and non-destructive testing applications" (ING-IND/31, 2 ECTS), PhD school in Information and Communication Technologies. (Course shared with Stefano Laureti)
From 23/09/2024 to 26/09/2024,	University of Petroleum-East China, Qingdao, China.	Lecturer of a cycle of Seminars for PhD students (14 hours): "1) NDE & signal processing; 2) Signal processing for Eddy Current Testing; 2) Advanced active thermography measurement schemes; 4) NDE of Li-Ion cells, College of Mechanical and Electronic Engineering.
From 20/09/2022 to 23/09/2022	KU Leuven, Science, Leuven, Belgium	Lecturer of the course (14 hours): "Advanced Data Processing in Non-Destructive Testing", in the framework of the Erasmus+ Teaching Staff program at the Science, Engineering & Technology "Arenberg Doctoral School".
A.A. 2011/12	University of Perugia, Dept. of Industrial Engineering	Lecturer of the course: "Inversion tomography techniques for industrial applications" PhD School in Industrial Engineering, XXVII Cycle.
A.A. 2024/25	University of Calabria	Lecturer of the course: "Didattica della Teoria dei Circuiti (IET-01/A – 2 CFU) – "Classe A040 – Scienze elettriche ed elettroniche" - Percorsi formativi 60 - 36 - 30 CFU ai sensi del DPCM 04/08/2023 e del DM 59/2017.
A.A. 2005/06	University of Perugia Faculty of Engineering	Lecturer of the course: "Supporto e sperimentazione in elettrotecnica", CORSO SPECIALE DM 85 del 18/11/2005, CLASSE/AMBITO/ABILITAZIONE A035 ELETTROTECNICA.

IV/C - Evaluation activity in PhD programs consistent with or related to the IET-01/A (Electrical Engineering) area in Italy or abroad		
Year	Institution	Course
2025	KU Leuven, Science, Engineering & Technology "Arenberg Doctoral School"	Member of the Doctoral Evaluation Board of the PhD candidate Ruben Buch, Thesis title: Automation of wave mode recognition in acoustic emission signals and its application to pressure tests on spherical storage tanks. Final exam: 25 June 2025
2024	KU Leuven, Science, Engineering & Technology "Arenberg Doctoral School"	Member of the Doctoral Evaluation Board of the PhD candidate Tommaso Seresini, Thesis title: Inspection of aerospace structures by optical vibrometry and infrared thermography. Final exam: 23 September 2024
2023	Technische Universität Berlin	Member of the Doctoral Evaluation Board of the PhD candidate Julien Lecompanon, Thesis title: Nondestructive defect characterization using

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	Faculty of Mechanical Engineering and Transport Systems	full-frame spatially structured super resolution laser thermography. Final exam: 31 October 2023
2022	Technische Universität Dresden Faculty of Electrical and Computer Engineering	Member of the Doctoral Evaluation Board of the PhD candidate Sergey Gartsev, Thesis title: “On determination of nonlinear elastic constants for residual stress measurements using Rayleigh waves. Final exam: 30 September 2022
2022	KU Leuven, Science, Engineering & Technology Arenberg Doctoral School	Member of the Doctoral Evaluation Board of the PhD candidate Michael Stamm, Thesis title: Innovative NDT techniques for aircraft maintenance. Final exam: 14 September 2022
2022	Alma Mater Studiorum - University of Bologna	Member of the Doctoral Evaluation Board of the PhD School SEHM2 - Structural and Environmental Health Monitoring and Management – XXXIV Cycle.
2020	University of Firenze	Member of the Doctoral Evaluation Board of the PhD School “Information Engineering” – XXXII Cycle.
2014	University of Messina	Member of the Doctoral Evaluation Board of the PhD School “Advanced Technologies for Optoelectronics and Photonics and Electromagnetic Modeling” – XXVI Cycle.
2024	University of Calabria	Member of the Doctoral Selection Board of the PhD School “Information and Communication Technologies” – XL Cycle – Grants founded/cofounded by the PNRR program
2019	University of Calabria	Member of the Doctoral Selection Board of the PhD School “Information and Communication Technologies” – XXXV Cycle
2025	Mediterranea University of Reggio Calabria	External Reviewer of the PhD Thesis of Federico Candela, title: Breaking news artificial intelligence: an intelligence system for video analysis, PhD school in Information Engineering, XXXVII Cycle.
2024	Università of Tuscia	External Reviewer of the PhD Thesis of Tiziana Cavaleri, title: The multi-analytical approach to cultural heritage study. Two case studies of Italian renaissance panel painting, PhD school in Engineering for energy and environment, XXXVI Cycle.
2022	University of Roma “La Sapienza”	External Reviewer of the PhD Thesis of Emanuele Ferrandino, title: “Bio-Inspired Propulsion System and Autonomous Driving Systems Design for a Class of Electric Boats”, PhD school in Information and Communication Technology (ICT), XXXIV Cycle.
2020	University of Tuscia	External Reviewer of the PhD Thesis of Claudia Colantonio, title: “Innovative non-invasive techniques for integrated imaging diagnostics of paintings and data analysis”, PhD school in Engineering for energy and environment, XXXII Cycle.

IV/D - Scientific responsibility for postdoctoral researchers, research fellows, grant holders, and as supervisor of doctoral theses

Year	Institution	Activity
From Jan 2025 Ongoing	University of Calabria, PhD School in “Information and Communication Technologies (ICT)”	Supervisor of the PhD student Hafiz Muhammad Imran, XL Cycle. Thesis title: <i>Metamaterial lenses for ultrasonic sub-wavelength imaging in water</i> NOTE: Hafiz Muhammad Imran is enrolled in the PhD as a MSCA fellow within the Project MetacMed (See Part VI/A – RP2).
From	University of Calabria,	Supervisor of the PhD student Mohamed Belkaid, XL Cycle.

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Jan 2025 Ongoing	PhD School in “Information and Communication Technologies (ICT)”	Thesis title: <i>Artificial Intelligence for discovering novel acoustic/mechanical metamaterials designs and properties</i> <u>NOTE:</u> Mohamed Belkaid is enrolled in the PhD as a MSCA fellow within the Project MetacMed (See Part VI/A – RP2).
From Nov 2024 Ongoing	University of Calabria, PhD School in “Information and Communication Technologies (ICT)”	Supervisor of the PhD student Francesco Medaglia, XL Cycle. Thesis title: <i>Development of signal processing algorithms and prototype electronic systems for mechanical characterization and defect detection in metal and concrete structures using ultrasonic testing - Sviluppo di algoritmi di elaborazione del segnale e sistemi elettronici prototipali per la caratterizzazione meccanica e la detezione di difettosità in strutture metalliche e di calcestruzzo tramite diagnostica ultrasonora</i> <u>NOTE:</u> The PhD’ grant is co-funded by the SismLab s.r.l. (D.M. 630/2024);
From 2 Ago to 30 Oct 2024	University of Calabria, DIMES Dept.	Scientific Supervisor of a 1-year Research Grant (Assegno di Ricerca) funded within the project NDE4BATTs (See Part VI/A – RP3) Grant title: <i>Development of non-linear ultrasonic testing techniques for the nondestructive evaluation of Li-ion battery cells- Sviluppo di tecniche ultrasonore non-lineari per la diagnostica non distruttiva di celle a ioni di Litio.</i>
From 1 May 2024 ongoing	University of Calabria, DIMES Dept.	Scientific Supervisor of a 2-year Research Grant (Assegno di Ricerca), ssd ING-IND/31, funded within the project START (See Part VI/A -RP4) Grant title: <i>Methods for process quality monitoring and defect detection of ceramic materials through nondestructive testing technique and machine learning - Metodi di controllo qualità di processo e detezione difetti di materiali ceramici tramite tecniche di diagnostica non distruttiva e machine learning.</i>
From Mar 2023 ongoing	University of Calabria, PhD School in “Information and Communication Technologies (ICT)”	Supervisor of the PhD student Rocco Zito, XXXVIII Cycle. Thesis title <i>Signal and image processing of thermography data for the characterization and non-destructive evaluation of materials and cultural heritage</i> <u>NOTE:</u> Rocco Zito PhD’ grant is funded within the Project Tech4You (See Part VI/A – RP6).
From Dic 2022 to Nov 2023	University of Calabria, DIMES Dept.	Scientific Supervisor of a 1-year Research Grant (Assegno di Ricerca), ssd ING-IND/31, funded by DIMES Dept. – “Dipartimento di eccellenza” Grant title: <i>Development of sensors and signal processing algorithms for non-destructive diagnostic applications - Sviluppo di sensori e di algoritmi di elaborazione del segnale per applicazioni di diagnostica non distruttiva.</i>
From 2 Aug 2022 to 31 Jul 2024	University of Calabria, DIMES Dept.	Scientific Supervisor of a “2-years Fixed Time Research Grant” (RTD-A (rinnovo), SSD ING-IND/31) awarded to Stefano Laureti, PhD. Project title: “Multisensor nondestructive testing for food industry - Diagnostica non-invasiva multisensore per l’industria agroalimentare”. The contract has been funded by PON “Ricerca e Innovazione” 2014-2020, Asse IV “Istruzione e ricerca per il recupero” Azione IV.6 “Contratti di ricerca su tematiche Green” (DM 1062 -10.08.2021). CUP: H25F21001230004.
From Feb 2017 to Apr. 2020	University of Perugia, PhD School in “Industrial and Information Engineering”	Supervisor of the PhD student Muhammad Khalid Rizwan, XXXII Cycle. Thesis title “ <i>Pulse-Compression for Phased-Array and Pulse-Echo Ultrasonic Inspections: Processing and Hardware Optimization</i> ” <u>NOTE:</u> Muhammad Khalid Rizwan was enrolled in the PhD as a MSCA fellow within the Project NDTonAIR (See Part VI/A – RP13).
From	University of Perugia,	Supervisor of the PhD student Hamed Malekmohammadi, XXXII Cycle.

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Feb 2017 to Apr. 2020	PhD School in "Industrial and Information Engineering"	Thesis title: <i>"Eddy Current and Thermography Imaging for Automatic Defect Identification and Reconstruction in Metallic and Composite Structures"</i> <u>NOTE</u> : Hamed Malekmohammadi was enrolled in the PhD as a MSCA fellow within the Project NDTonAIR (See Part VI/A- RP13).
From 2014 to 2017	University of Perugia, PhD School in "Industrial and Information Engineering"	Supervisor of the PhD student Giuseppe Silipigni, XXX Cycle. Thesis title: <i>"Eddy current and thermography nondestructive evaluation of materials used in aircraft industry"</i> .
From 2014 to 2017	University of Perugia PhD school in "Industrial and Information Engineering"	Supervisor of the PhD student Stefano Laureti, XXIX Cycle, Thesis Title: <i>"Acoustic Metamaterials for Medical Ultrasound and NonDestructive Evaluation"</i> . <u>NOTE</u> : The PhD was in Co-tutelle agreement with Prof. David Hutchins and Prof. Simon Leigh, University of Warwick - School of Engineering.
From 2013 to 2016	University of Perugia, Polo Scientifico Didattico di Terni	Scientific Supervisor of a "3-years Fixed Time Research Grant" (RTD-A SSD ING-IND/31) awarded to Luca Senni, PhD, funded by the project <i>"Hyperspectral imaging system for advanced nondestructive testing and evaluation of materials - Sistema di imaging iperspettrale per tecniche avanzate di diagnostica non distruttiva sui materiali"</i> (See Part VI/B- TPP12).
From 2011 to 2014	University of Perugia PhD school in Industrial Engineering	Co-Supervisor of the PhD student Luigi Battaglini, XXVII Cycle. Thesis title <i>"Advanced Non-Destructive Evaluation Techniques for Material Testing and Industrial Applications"</i> (ING-IND/31), Supervisor Prof. Pietro Burrascano.
2014-2015	University of Perugia, Polo Scientifico Didattico di Terni	Scientific Supervisor of a 1-year Research Grant (Assegno di Ricerca), ssd ING-IND/31, funded within the project: <i>Design and development of spintronic sensors for microwave imaging with applications to the non-destructive evaluation and the characterization of materials - Progettazione e sviluppo di sensori spintronici per imaging a microonde con applicazione ai test non distruttivi e alla caratterizzazione dei materiali.</i> (See Part VI/B- TPP11)
2013-2014	University of Perugia, Polo Scientifico Didattico di Terni	Scientific Supervisor of Research Grants (Assegni di Ricerca), ssd ING-IND/31, funded within the project Grant title: <i>Electromagnetics techniques for the non-destructive evaluation of welds in complex metallic structures-Tecniche Elettromagnetiche per il controllo non distruttivo delle saldature in strutture metalliche complesse.</i> (See Part VI/B- TPP13)
2011-2012	University of Perugia, Polo Scientifico Didattico di Terni	Scientific Supervisor of Research Grants (Assegni di Ricerca), ssd ING-IND/31, Grant title: <i>Quality control of industrial products through an ultrasonic imaging system based on pseudo-orthogonal sequences - Controllo della qualità dei prodotti industriali attraverso un sistema innovativo di imaging ultrasonoro basato su sequenze pseudo ortogonali.</i> (See Part VI/B- TPP14)

Summary:

N° 5 PhD supervised/cosupervised to the completion

N° 4 PhD currently supervised

N° 2 Post-Doc (RTD-A) positions supervised

N° 6 Research Grants (Assegni di ricerca) supervised, of which 1 ongoing

IV/E - Other teaching, research, and student service activities

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Year	Institution	Activity
From A.A. 2022/23 ongoing	University of Calabria	Member of the National PhD Board in "Technology Applied To Cultural Heritage - TEACH", from XXXVIII cycle
From A.A. 2021/2022	University of Calabria	Coordinator of the Self-evaluation commission of the PhD School in Information and Communication Technologies of the University of Calabria;
From A.A.2019 ongoing	University of Calabria	Member of the PhD Board in "Information and Communication Technologies", from XXXV cycle
From A.A. 2017/18 ongoing	University of Calabria	Member of the Course Council of Electronic Engineering (bachelor's and master's)
From 2013 To 2019	University of Perugia	Member of the PhD Board in "Industrial and Information Engineering " from XXIX to XXXIV cycle
From 2014 to 2016	University of Perugia	Member of the Erasmus Board of the Dept. of Engineering of the University of Perugia;
From 2014 to 2016	University of Perugia	Supervisor of the ERASMUS Agreemeent between the University of Perugia and the Kaunas University of Technology;
From 2012 to 2014	University of Perugia	Supervisor of the ERASMUS Agreemeent between the University of Perugia and the University of Warwick;
From A.A. 2010/11 to A.A. 2016/17	University of Perugia	Member of the Course Council of Industrial Engineering (bachelor's and master's)
From Dec. 2014 to Dec. 2015	University of Perugia,	Head of the non-destructive testing laboratory
From 2014	University of Calabria, University of Perugia,	Scientific supervisor of several bachelor's and master's theses developed within international mobility programs (ERASMUS+, ERASMUS+ Traineeship, ERASMUS+ MoSt - Non-EU Student Mobility.)
From 2009	University of Calabria, University of Perugia,	Member of Graduation and Exams committees
From 2006 ongoing	University of Calabria, University of Perugia,	He has been the Supervisor/Cosupervisor of >80 Undergraduate/Graduate Theses in the Courses of Electronic Engineering (Bachelor's and Master's), Computer Engineering (Bachelor's), Industrial Engineering (Bachelor's and Master's), Engineering Management and Information Engineering (Bachelor's and Master's), Energetic Engineering (Bachelor's).

Part V - Awards and Honors, Society memberships, and professional activity for the scientific

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community training or research activity at Italian or foreign institutions.

V/A - Awards and Honors	
Year	Title
Sept. 11-14, 2019,	ENDE 2019, 24th International Electromagnetic Nondestructive Evaluation workshop, Chengdu, China: Best Oral Presentation Award to M. Ricci
July 2-5, 2018	SMACD 2018, 15th International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design, Prague Czech Republic: Honorable Mention Best Paper Award to P. Burrascano, G. Di Capua, N. Femia, S. Laureti & M. Ricci for the paper “Pulse Compression for Ferrite Inductors Modeling in Moderate Saturation”. (see Part X/D – CP19)
Sept. 27-29, 2017	IWASPND 2017, the VIIIth edition of the International Workshop on Advances Signal Processing for NonDestructive Evaluation, Université Laval, Québec, Canada: Best Presentation Award to M. Ricci, G. Silipigni, S. Laureti, L. Senni, R. Tomasello and P. Burrascano for the work “Optimal design of chirp excitations for pulse compression thermography”.
From 10-07-2017	Invited Member of Marie Curie Alumni Association as Coordinator of a MSCA project (NDTonAIR)
May 13-17, 2017	ICASI 2017, IEEE International Conference on Applied System Innovation, Sapporo, Japan - Best Conference Paper Award to P. Burrascano, M. Ricci, L. Senni, R. Tomasello and S. Laureti for the paper “Improving range resolution in pulse-compression ultrasonics systems by optimal filtering”. (see Section X/D – CP26)
31 Oct 4 Nov 2016	MMM 2016, 61st annual conference on Magnetism & Magnetic Materials, New Orleans, Louisiana, USA: Best poster award to R. Tomasello, M. Ricci, P. Burrascano, V. Puliafito, M. Carpentieri, G. Finocchio, for the paper “Electrical detection of single magnetic skyrmion at room temperature”, (see Section X/A – J52)

V/B - Society Memberships	
Year	Title
2025	Member of the International Neural Network Society
2025	Member of the IEEE Nanotechnology Council
2013, 2014, 2016, 2025	Member of the IEEE – Italy Section
From 2021	Member of the Italian Association for Nondestructive Testing AIPnD - Associazione Italiana Prove non Distruttive (AIPnD), from 2024 Coordinator of the AIPnD Committee on composite materials
2021-2023	Member of the Italian Archaeometric Society - Associazione Italiana di Archeometria (AIAr)

V/C - Participation to Editorial boards and other editorial activities	
Year	Title
From Nov. 2022	Member of the Editorial Board of the Journal “Nondestructive Testing and Evaluation”, Print ISSN: 1058-9759 Online ISSN: 1477-2671, publisher Taylor & Francis BV, Q2 journal (Info here https://www.tandfonline.com/journals/gnte20/about-this-journal#editorial-board)
2021	Guest Editor of the Special Issue “Advances in Nondestructive Testing and Structural Health Monitoring for Materials and Aerospace Industry Applications” (Info here: https://www.mdpi.com/journal/applsci/special_issues/shm_aerospaceindustry)
From Feb. 2019	Member of the Editorial Board of the Journal “NDT & E International”, Print ISSN: 0963-8695, Online: ISSN: 879-1174 publisher Elsevier Ltd, Q1 journal

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	(Info available here https://www.journals.elsevier.com/ndt-and-e-international/editorial-board).
From 2004	Reviewer for various journals, such as: Nature Communications, NDT & E International, Measurement, Neural Networks, Ultrasonics, Journal of Applied Physics, IEEE TUFFC; IEEE Transactions on Industrial Electronics; IEEE Transactions on Instrumentation and Measurements, IEEE Sensors Journal, Scientific Report, IEEE Transaction of Magnetics, etc....

V/D - Role in Conference Organization

Year	Title
From 2025	Member of the Scientific Committee of the "14 th ECNDT 2026 – European Conference on Nondestructive Testing (Info available here https://www.ecndt2026.org/it/info-su-ecndt-2026/comitato-scientifico/)
30 Jun – 5 Jul 2025, Roma	Special Session Organizer (together with Xiaokang Yin) and Area Chair at IJCNN2025 – International Joint Conference on Neural Networks; Special Session Title: <i>Neural networks for nondestructive evaluation and structural health monitoring</i> (Info available here https://2025.ijcnn.org/authors/special-sessions) Session Chair of the poster sessions: <i>AI for Critical Infrastructures and Manufacturing (I & II)</i>
From 2023 edition	Member of the Scientific Committee of the "IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage" (Info available here https://www.metroarcho.com/committee)
From 2023 edition	Member of the Scientific Committee of the International Conference on Visual Pattern Extraction and Recognition for Cultural Heritage Understanding - VIPERC. Info available here (https://sites.google.com/view/viperc-2025/organization)
2-4 Sep. 2020 Salerno (held online)	Sessions Organizer & Session Chair (together with Elena Jasiūnienė) at the "10th EASN Virtual International Conference on Innovation in Aviation & Space to the Satisfaction of the European Citizens" Session title: <i>Non-Destructive Testing and Structural Health Monitoring of Aircraft structures (I&II)</i>
27-30 April 2020*, Helsinki, (held online)	Invited Session Organizer (together with Dimitrios Chronopoulos) at the TRA2020 Transport Research Arena Conference Session title: <i>Air transport safety: the role of structural health monitoring and nondestructive testing</i> *NOTE: due to pandemic, the conference was cancelled, and some invited sessions were scheduled as online Webinars. The present session was held on 10 June 2020
25-28 May, 2020, Dubrovnik, (held online)	Associate Technical Programme Chair for the 2020 IEEE International Instrumentation & Measurement Technology Conference - I2MTC 2020 Track: <i>Non-destructive testing and evaluation</i>
27-30 May 2018, Firenze	Sessions Organizer & Session Chair (together with Luca De Marchi) at ISCAS2018 – IEEE International Symposium on Circuits & Systems Session title: <i>Acquisition and Processing Techniques for Industrial Nondestructive Evaluation (I & II)</i>

V/E - Invited Speaker at International Conferences, Workshops and Symposia

Year	Title
9-12 Feb. 2025, Bressanone, Italy	Invited Speaker at the 2025 IEEE Conference on Advances in Magnetics – AIM2025 Talk title: <i>Ultrasonic nondestructive evaluation of Li-Ion cells</i> (Info available at this link: https://www.aim2025.it/program/invited-speakers/)
19-21 Oct. 2022, Cosenza, Italy	Invited Speaker (Plenary tutorial) at the 2022 IMEKO TC-4 International Conference on "Metrology for Archaeology and Cultural Heritage"

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	Tutorial title: <i>Correlation-based measurement techniques for active thermography inspection of paintings</i> (Info available at this link: https://www.metroarcho.com/ma2022/tutorial-ricci)
20-22 Nov. 2020, Kunming, China	Invited Speaker at the 2020 IEEE Far East NDT New Technology & Application Forum (FENDT), (on-line participation) Talk title: <i>The NDTonAIR H2020 Marie-Sklodowska-Curie project: hot topics addressed, main results achieved, and new directions and perspectives of research emerged</i>
08-10 May 2019 Vitoria-Gasteiz, Spain	Invited Speaker at the 2 nd SAFE-FLY International conference”, organized by Aernnova Engineering. Talk title: <i>Signal and image processing for Thermography nondestructive evaluation of aircraft and aerospace materials</i>
24-25 Jan. 2018, Madrid, Spain	Invited speaker at the “1 st SAFE-FLY International seminar”, organized by Aernnova Engineering. Talk title: <i>NDTonAIR European Training Network</i>
22-24 Jun. 2017, Xi'an, China	Invited speaker at the “2017 Far East Forum on Nondestructive Evaluation and Testing” Talk title: <i>“Comparison between time and frequency domain analysis in Swept Frequency Eddy Current Testing”</i>
15-16 Sep. 2014 Hong Kong & 17 Sep. 2014 Shenzhen, China	Invited Speaker at the workshop “Technology-Industry Mathcing Seminar” in the framework of the “Soft-Landing Project for Technology and Innovation Collaboration” promoted by the Shenzhen- Hong Kong Productivity Training Institute. Talk title: <i>Pulse-Compression Ultrasonic Technique for Non Destructive Testing Inspection of Forged Steel with High Attenuation</i>
24-29 Jan. 2005 Oberwolfach, Germany	Invited speaker at the workshop “Entanglement and Decoherence: Mathematics and Physics of Quantum Information and Computation” organized by Mathematisches Forschungsinstitut Oberwolfach, Talk title: <i>Quantum Information Processing by symmetrization,</i>
29 April-4 May 2003, Budmerice, Slovakia.	Invited speaker at the workshop “YEP 2003 Young European Physicist” organized by the Research Training Network QUEST, “Quantum Entangled States of Trapped particles”, Talk title: <i>Pauli Tomography of a single qubit device</i>
V/F - Invited Speaker at National Conferences, Workshops and Symposia	
Year	Title
5 July 2024 Napoli	Invited speaker at the “Convegno – Termografia a infrarossi”, Organized by the Associazione Italiana Prove non Distruttive – AIPnD Talk title: <i>Procedure avanzate di misura per termografia attiva – Advanced measurement schemes for active thermography</i>
20-21 Jun 2024 Bari	Invited speaker at the XXXVIII Riunione Annuale dei Ricercatori di Elettrotecnica Talk title: <i>Nondestructive evaluation of Li-Ion battery cells</i>
6 Dec. 2023, Bari	Invited speaker at the workshop “Frontiers in Magnetism 2023”, Talk title: <i>Magnetic skyrmions and their interaction with the acoustic field</i>
20-21 Jun 2019 Viterbo	Invited speaker at the XXXV Riunione Annuale dei Ricercatori di Elettrotecnica Talk title: <i>Active Infrared thermography for nondestructive evaluation of materials and artworks</i>
14-15 Jun 2018 Roma	Invited speaker at the XXXIV Riunione Annuale dei Ricercatori di Elettrotecnica within the Round Table: <i>La sfida di Digital-Healthcare e Foodtech: Industria 4.0, nuova vita per le Scienze della vita</i> (Moderator: Fernando Corinto)
15 June 2016, Messina	Invited speaker at the workshop “Frontiers in Magnetism”, IEEE Magnetism Society – Italy Chapter, Annual Meeting Talk title: <i>Skyrmion based microwave detector and harvesting</i>

V/G – Speaker/Poster presentation at International Conferences, Workshops and Symposia

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Year	Title
28-30 Nov. 2023, Brescia, Italy	Speaker at the 14th International Conference on nondestructive investigations and microanalysis for the diagnostics and conservation of cultural and environmental heritage – Art'23. Talk title: <i>Application of virtual wave thermography for the inspection of paintings</i>
11-14 Sep. 2019, Chengdu, China	Speaker at the 24 th International Workshop on Electromagnetic Nondestructive Evaluation – ENDE2019 Talk title: <i>Comparison of different approaches to mitigate diffusion effects on time-analysis of eddy current signals (Best Oral Presentation Award)</i>
27-30 May 2018, Firenze	Speaker at the ISCAS2018 – IEEE International Symposium on Circuits & Systems Talk title: <i>Range Sidelobes Reduction for Pulse-Compression NDT based on Reactance Transformation</i>
6-8 Sep. 2017 Saclay, France	Speaker at the 22 nd International Workshop on Electromagnetic Nondestructive Evaluation – ENDE2017 Talk title: <i>Comparison of time- and frequency domain analysis performances in Swept Frequency Eddy Current Testing</i>
20 Oct. 2017 Torino, Italy	Speaker at the FoodCAS workshop at 2017 Biomedical Circuits and Systems Conference 2017 Talk title: <i>Near-infrared nondestructive evaluation of food based on multi-frequency Lock-in detection</i>
6-8 Sep. 2016, Lisboa Portugal	Speaker at the 21 nd International Workshop on Electromagnetic Nondestructive Evaluation – ENDE2016 Talk title: <i>Signal components selection in multi-frequency eddy current testing</i>
7-11 Jul 2014 Bordeaux, France	Poster presentation at the 12 th International Conference on Quantitative InfraRed Thermography - QIRT2014 Poster title: <i>Application of pseudo-orthogonal codes to Stimulated Thermography NDT</i>
4-8 May, 2014, Dresden, Germany	Poster presentation at the IEEE International Magnetism Conference 2014 - INTERMAG Poster title: <i>Chirp spectroscopy applied to the characterization of Ferromagnetic resonance in Magnetic Tunnel Junction</i>
1-3 Jul 2013 Santorini, Greece	Speaker at the 18th International Conference on Digital Signal Processing (DSP 2013) Talk title (1): <i>A comparison of coded waveforms for air-coupled ultrasonic inspection</i> Talk title (2): <i>Frequency modulated continuous wave ultrasonic radar</i>
7-10 Oct 2012 Dresden, Germany	Poster presentation at the 2012 IEEE International Ultrasonics Symposium – IUS2012 Poster title: <i>Exploiting Non-Linear Chirp and sparse deconvolution to enhance the performance of pulse-compression ultrasonic NDT</i>
16-17 Jul 2012, Manchester, UK	Speaker at the 2012 IEEE International Conference on Imaging Systems and Techniques - IST 2012 Talk title: <i>Magnetic Imaging and Machine Vision NDT for the On-Line Inspection of Stainless Steel Strips</i>
13-15 Sep. 2011 Telford, UK	Speaker at the 50 th Annual conference of the British Institute of Non-destructive testing -BI-NDT 2011. Talk title: <i>Pulse compression ultrasonic inspection in high-dissipating forged steel</i>
30 Jun - 1 Jul 2011, Orvieto, Italy	Poster presentation at the 2011 International Workshop on ADC Modelling, Testing and Data Converter Analysis and Design and IEEE 2011 ADC Forum – IWADC2011 Poster title: <i>Virtual instrument for air-coupled ultrasound NDT application based on Pseudo-Noise sequences</i>
9-11 May 2011 Levico (Trento), Italy	Poster presentation at the 8th International Symposium of Hysteresis Modeling and Micromagnetics - HMM 2011 Poster title: <i>Enhancing the switching in nanopillars spin-valves by exploiting m-sequences</i>
22 - 25 June 2010, Prague,	Speaker at the International Conference on Modelling and Simulation - Ms '10 Prague, Talk title: <i>Feature Extraction and Imaging Methods in Electromagnetic Non Destructive Testing of</i>

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Czech Republic	<i>Metallic Materials</i>
13-15 Sep. 2006, Sorrento, Italy	Poster presentation at the 9th Workshop on Optimization and Inverse Problems in Electromagnetics – OIPE 2006 Poster title: <i>Time Domain Deconvolution Approach Relying on Galois Sequences</i> Poster title: <i>Multi-Frequency Eddy Currents Analysis for the 3D Reconstruction of Defects in Metallic Plates</i>
20-22 Sep. 2004 Roma, Italy	Speaker at the conference Quantum Information Processing and Communication Talk title: <i>Experimental Realization of the $1 \rightarrow 3$ and $2 \rightarrow 3$ Universal optimal Quantum Cloning Machine</i>
25-29 Jul. 2004, Glasgow, Scotland	Poster presentation at the conference Quantum Measurement, Computing and Communication – QCMC04 Poster title: <i>Experimental purification of single qubits</i>

V/H – Other activities for the scientific community and for networking	
Year	Title
1-4 Apr. 2025	Visiting Scientist at l'International Research Lab (IRL) 2958 Georgia Tech-CNRS, Metz, France
22-27 Sept. 2024	Visiting Scientist at the China University of Petroleum (East China), Qingdao, China
10-12 Jan. 2024 13-17 Feb. 2023	Visiting Scientist at the BAM - Bundesanstalt für Materialforschung und –prüfung (Federal Institute for Materials Research and Testing), Berlin, Germany
1-31 Aug. 2023	Visiting Researcher at Atlantis Consulting SA, Thessaloniki, Greece, in the framework of the TECTONIC project, see Section VI/A, RP8
19-23 Sept 2022	Visiting Scientist at KU Leuven university, Leuven, Belgium in the framework of ERASMSUS+ Staff Mobility for Teaching
18-28 Aug. 2018 18-25 Aug. 2014 9-12 Apr. 2013	Visiting Scientist at the University of Warwick, Coventry, UK
10-12 Nov. 2014	Visiting Scientist at the Newcastle University, Newcastle upon Tyne, UK
Jan 2024	Scientific supervisor of the hosting agreement for the Visiting Scientist Qiuji Yi, Northumbria University, in the framework of the call UK-IT Trustworthy AI Visiting Research Programme - Turing call Topic: Application of AI methods to the nondestructive thermographic analysis of industrial goods and artworks.
May-June 2023	Scientific supervisor of the hosting agreement for the Visiting Scientist Addison Salazar Afanado, Polytechnic University of Valencia, in the framework of the call VIS (<i>Visiting Scholars</i>) & TE.M.A. (<i>TEaching Mobility Abroad</i>), funded by PAC Calabria 2014/2020 Topic: Application of ML methods to ultrasonic and thermography NDT
Sept.-Oct. 2020	Scientific supervisor of the hosting agreement for the Visiting Scientist Alberto Rodriguez Martinez, Miguel Hernández University of Elche, in the framework of the call BEST/2020 funded by the Generalitat Valenciana Topic: Studying and developing advanced signal processing algorithm for ultrasonic NDT
2024	Evaluator for the University of Warwick (internal promotion procedure)
2023-2024	Evaluator of MSCA-Postdoctoral Fellowship proposals
2021	Evaluator for the Italian evaluation procedure “VQR 2015-19”
From 2021	Member of evaluation boards in several recruitment procedures for researchers (RTD-A, RTT)

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27 September 2019	Invited Speaker at the SHARPER-European Researchers' Night 2019 (EU Corner) at the University of Perugia with a talk on: “Number theory and nondestructive evaluation: the amazing legacy of Evariste Galois”,
27 September 2013	Speaker in the roundtable “Eating well” at the European Researchers' Night 2013 at the University of Perugia, Polo Scientifico Didattico di Terni
Since 2011	Speaker/supervisor of several orientation/scientific dissemination activities at high schools

Part VI - Funding Information [grants as Principal Investigator (PI) or Team Member (TM)] and Outcomes obtained in the field of technology transfer

VI/A - Competitive National and International projects, awarded through a peer-review process (RP's)			
PI=Principal investigator, TM= Team Member			
#/Year	Title	Program/Call	Grant Value
RP1 From Jul. 2025 In preparation	Unit PI for the University of Calabria, within the project “ <i>UNVEIL - Unified Nondestructive Evaluation of Historical Artifacts</i> ” (https://cordis.europa.eu/project/id/101226363) The Centre National De La Recherche Scientifique – CNRS is the Coordinator (PI Alexander Loquet). In this project Marco Ricci is the WP Leader of WP4-Training and Supervisor of the Doctoral position n°2 on the topic: “Pseudo-noise PuCT with multiwavelength lighting source for paintings stratigraphy”	EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions HORIZON-MSCA-DN2024-DN-01 Grant n° 101226363	Total budget: € 3.704.283,00 Local budget: € 281.755,08
RP2 From Mar. 2024 Ongoing	TM for the DIMES Dept., University of Calabria, within the project “ <i>MetacMed: Acoustic and mechanical metamaterials for biomedical and energy harvesting applications</i> ”. (https://cordis.europa.eu/project/id/101119738) The University of Calabria is the coordinator, PI Stefano Laureti. Marco Ricci is the PhD supervisor of the two MSCA Doctoral Candidates recruited at the Università della Calabria, see Section IV/D.	EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions HORIZON-MSCA-DN2022-DN-01 Grant n° 101119738.	Total budget: € 2.023.236 Local budget: € 518.875,20
RP3 From Nov. 2023 Ongoing	Unit PI for the DIMES Dept., University of Calabria, within the project “ <i>NDE4BATTs- Non-Destructive Evaluation for Improving Batteries Operation, Safety, and Second-Life</i> ”. The Università di Roma La Sapienza is the coordinator, PI Marco Laracca. The Unit at Università della Calabria is in charge of the ultrasonic nondestructive testing of Li-ion battery cells. (https://diaee.web.uniroma1.it/it/nde4batts)	PRIN-PNRR 2022, Ministero dell'Università e della Ricerca Grant P2022R9WT8	Total budget: € 237.885,00 Local budget: € 116.115,00
RP4 From May 2023 ongoing	Unit PI for the DIMES Dept., University of Calabria, within the project “ <i>START - Sustainable dAta-driven manufacturing</i> ”. In the project DIMES is involved in the OR2 -Models for the prediction and classification of the quality of ceramic materials based on feature extraction and machine learning approaches. Project website https://www.start-innovability.it/	Accordo per l'innovazione Ministero delle imprese e del Made in Italy Grant F/310087/01-05/X56	Total budget: € 6.873.292,69 Local Budget: € 362.406,25
RP5 From	TM of the University of Calabria within the project “ <i>Open Network per la RADIOMica/rAdiogenoMica</i> ”	PSC Salute - Traiettorie 2 del	Total budget: € 4.000.000,00

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Feb. 2023 ongoing	<i>Cooperativa basata su intelligenza artificiale - Radioamica</i> , (https://projects.dimes.unical.it/radioamica/) <i>In the project M. Ricci is involved in the OS4 and OS6 and in the Task A4.4: Active thermography for breast cancer diagnosis</i>	Piano operativo salute CUP: H53C22000650006	Local budget: €1.280.000,00
RP6 From Jan. 2023 ongoing	TM of the University of Calabria unit within the project "TECH4YOU - Technologies for climate change adaptation and quality of life improvement" (https://ecs-tech4you.it/) In the project Marco Ricci supervises the Task2 of P.P.4.4.1 Spoke 4 - Sensors, devices and techniques for the characterization of materials and degradation phenomena	PNRR-Ecosistemi dell'innovazione. Ministero dell'Università e della Ricerca	Total budget: €1.728.775,00
RP7 From Jun. 2022 May 2025	TM of the University of Calabria unit within the project: "The Italian factory of micromagnetic modeling and spintronics" (https://www.petaspin.com/it-spin/)	PRIN2020- Ministero dell'Università e della Ricerca 2020LWPKH7_003 -	Local budget: €106.300,00
RP8 From Mar. 2021 to Dic.2022	TM of the University of Calabria unit within the project: "REACTION – first and euRopEAn siC eigTh Inches pilOt line" (https://cordis.europa.eu/project/id/783158)	H2020-EU.2.1.1.7. - ECSEL H2020-EU.2.1.1 Industrial Leadership Grant n° 783158	Total budget: €49.767.672,5 Local budget: € 147.491,31
RP9 Oct. 2020 to Feb. 2022	TM of the University of Calabria unit within the project: "REDIRECT-REDuce REuse Ceramic Tiles" Project website https://www.redirect-innovability.it/	Accordo per l'innovazione Ministry MISE Grant n. F/160016/01-05/X41	unknown
RP10 From 1 Feb. 2020 ongoing	TM of the University of Calabria unit within the project: "TECTONIC - TEchnological Consortium TO develop sustainNablity of underwater Cultural heritage" (https://cordis.europa.eu/project/id/873132)	EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions H2020-MSCA-RISE-2019	Total budget: € 1.062.600,00 Local budget: € 276.000,00
RP11 From Jun 2019 To May 2020	TM of the University of Calabria unit within the project: "Wide band gap Innovative SiC for Advanced Power-WInSiC4AP" (https://cordis.europa.eu/project/id/737483)	H2020-EU.2.1.1.7. - ECSEL H2020-EU.2.1.1 Industrial Leadership Grant n° 737483	Total budget: € 27.981.714,14 Local budget: € 65.625,00
RP12 From Dic 2016 to Oct. 2020	External expert member of the UK project "High resolution biomedical imaging using ultrasonic metamaterials" coordinated by Warwick, Prof. D.A. Hutchins (https://gtr.ukri.org/projects?ref=EP%2FN034163%2F1)	UK Engineering and Physical Sciences Research Council (EPSRC) Grant n° EP/N034163/1	Total budget: £391.153,00 Local budget: Only costs refund
RP13 From May 2016 to Sep. 2020	PI (Coordinator) and Chief of the Supervisory Board of the Project: "NDTonAIR - Training Network in Non-Destructive Testing and Structural Health Monitoring of Aircraft structures". (https://cordis.europa.eu/project/id/722134) Marco Ricci coordinated the project for the University of Perugia since the submission stage up to the 30 December 2016, date of the move to the University of Calabria.	EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions H2020-MSCA-ITN-2016 European Commission Grant 722134	Total budget: €3.808.670,00 Local Budget: University of Perugia € 516.122,64 University of Calabria

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	Since 31 December 2016 to the end of the project, he has been the Chair of the Supervisory Board of the Project and Unit PI (from January 2017) for the University of Calabria, which was a Partner Organization.		
RP14 From May 2016 to Dec 2016	Unit PI for the University of Perugia within the project: <i>"Broadband microwaves nano-receivers based on spin-transfer-torque"</i> . The University of Messina coordinated the project, PI Giovanni Finocchio	Bilateral scientific and cooperation agreement "di Grande Rilevanza ITALIA-CINA 2016-2018" - MAECI Grant CN16GR09	Overall Budget: € 37.000,00 Local budget: Only costs refund
RP15 From Oct 2011 to Oct 2013	TM as researcher of the Università degli studi di Perugia for the University of Perugia within the project <i>"Development of a Multi-Input Multi-Output Ultrasound System Based on the Use of Pseudo-Orthogonal Numerical Sequence (Sviluppo di un sistema ultrasonoro a Multi-Input Multi-Output basato sull'utilizzo di sequenze numeriche pseudo-ortogonali)"</i> , PI: Pietro Burrascano, University of Perugia.	MIUR- PRIN 2009	Overall budget € 357.831,00 Local budget € 82.122,768
RP16 From Dic 2005 to Dic 2006	Collaborator for the University of Perugia as owner of a Research Grant (Assegno di ricerca) within the project "Developments of Methods for Electromagnetic Diagnostics -Applicazioni di Metodi per Diagnostica Elettromagnetica (AMDE)", PI: Prof. E. Cardelli, University of Perugia.	MIUR-PRIN 2004	unknown
RP17 From Dec. 2002 to Aug. 2005	TM for the Istituto Nazionale per la Fisica della Materia, unit of the University of Roma "La Sapienza" at the project "ATESIT- Active Teleportation and Entangled State Information Technology", PI Prof. Francesco De Martini. (https://cordis.europa.eu/article/id/83613-advancing-quantum-information-society/it)	FET European Network on Quantum Information and Communication (Contract IST-2000-29681: ATESIT)	Overall budget € 2.020.000,00

VI/B Third-party Funding research projects (TPP)

PI=Principal investigator, TM= Team Member

Year	Title	Funding Institution	Grant Value
TPP1 From Sept. 2019 to Sept. 2022	PI for the University of Calabria of the Applied Research Project "Development of an eddy-current sensor for the classification of forgings microstructures and for the analysis of the bruise noise",	Acciai Speciali Terni S.p.A. - Thyssen Krupp (Italy)	€20.000,00
TPP2 From Jun. 2015 to May 2016	PI for the University of Perugia of the Applied Research Project "Development of a pre-competitive apparatus with the related data acquisition and storing software for the inspection of forging through the integration of: (I) an ultrasonic Non-Destructive testing system; (II) an ultrasonic positioning system for the tracking of the measurement points over the forgings",	Divisione Fucine di Acciai Speciali Terni S.p.A. - Thyssen Krupp (Italy)	€ 35.000,00

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TPP3 From Apr. 2015 to Sept. 2015	PI for the University of Perugia of the Applied Research Project "Application of Pulse Compression to automatic ultrasonic inspection and imaging" <i>NOTE: The publications [J38] reports results from this project</i>	SIEMENS A.G. (Germany)	€ 45.000,00
TPP4 From Jul. 2013 to Jul. 2014	PI for the University of Perugia of the Applied Research Project "Ultrasonic Technique for the inspection of forgings with high dissipation: validation with third-parties, development of a prototype system integrating the inspection system, a positioning system for the localization of the probes over the forging and an automatic report generator software"	Società delle Fucine S.r.l. – Acciai Speciali Terni- Thyssen Krupp (Italy)	€ 35.000,00
TPP5 From Oct. 2011 to Oct. 2012	PI for the University of Perugia of the Applied Research Project "Ultrasonic Technique for the inspection of forgings with high dissipation: validation of the technique and development of custom hardware parts" <i>NOTE: The publications [J65] reports results from this project</i>	Società delle Fucine S.r.l. – Acciai Speciali Terni- Thyssen Krupp (Italy)	€ 50.000,00
TPP6 From June 2012 to June 2014	TM for the University of Perugia of the Applied Research Project within the project " Studio e sviluppo di un innovativo blocco in laterizio per la realizzazione di murature da tamponamento ecocompatibile e ad alte prestazioni termiche"	Fornaci D.C.B. – Pierino Branella S.p.A. within POR FESR 2007/13 Bando Co-Research – Regione Lazio – FILAS-CR-2011-1095	€ 138.000,00
TPP7 From Oct. 2011 to Oct 2013	TM for the University of Perugia of the Applied Research Project within the project: "Studio e sviluppo di un'avanzata tecnica di diagnostica senza contatto a infrarossi per l'intercettazione di particelle solide estranee nei prodotti da forno, e validazione prototipale piena scala con ispezione continua su linea tipo per fette biscottate (NIRD 2011 - Noninvasive InfraRed Detection)"	Biscotti P. Gentilini Srl within POR FESR 2007/13 Bando Co-Research – Regione Lazio – FILAS-CR-2011-1045	€ 176.474,96
TPP8 From Oct. 2010 to Oct. 2012	TM for the University of Perugia of the Applied Research Project at the project "New methods and advanced technologies for the detection of physical pollutants and the production of high-quality baked goods – Studio nuove metodiche e tecnologie avanzate per intercettazione inquinanti fisici e ottenimento di prodotti da forno ad alta qualità" <i>NOTE: The publications [J59] reports results from this project and a Patent has been also filled (PATENT1, section VI/C below)</i>	Colussi S.p.A. within POR FESR 2007/13 Bando Re.sta Ricerca 2008 – Regione Umbria	€87.000,00
TPP9 June 2009 July 2011	TM for the University of Perugia of the Applied Research Project "Development of nondestructive evaluation techniques for the identification and classification of surface defects in stainless steel laminates- Progetto per lo sviluppo di tecniche diagnostiche non distruttive per l'individuazione e la classificazione di difetti superficiali in laminati d'acciaio inossidabile".	THYSSEN-KRUPP ACCIAI SPECIALI TERNI S.p.A.	€80.000,00

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NOTE: Marco Ricci was in charge of the development of the magnetic imaging system and the publications [J61] and [CP46] originated from this project. Marco Ricci also presented the results at the conference IST2012, see Section V/G			
TPP10 Feb. 2007– Dec. 2008	TM for the University of Perugia of the Applied Research Project “Design, Prototyping and Development and Operating Procedures for an Eddy Current Nondestructive Diagnostic System – Progettazione, prototipazione e sviluppo delle procedure operative di un sistema di diagnostica non distruttiva mediante correnti indotte per l'individuazione di difettosità incluse in fucinati metallici e prossime alla superficie del foro assiale interno ai fucinati stessi” NOTE: From this project, a Patent has been filled (PATENT3, section VI/C below)	T.E.R.N.I. Research Ionizing Radiations S.p.A.	€40.000,00
TPP11 Dec 2013 - Dec 2014	PI for the University of Perugia – Polo Scientifico Didattico di Terni of the research project “Design and development of spintronic sensors for microwave imaging with applications to the non-destructive evaluation and the characterization of materials (Progettazione e sviluppo di sensori spintronici per imaging a microonde con applicazione ai test non distruttivi e alla caratterizzazione dei materiali).”	Fondazione Cassa di Risparmio di Terni and Narni - CARIT	€65.000,00
TPP12 Mar 2013 - Dec 2016	PI for the University of Perugia – Polo Scientifico Didattico di Terni of the research project "Hyperspectral imaging system for advanced nondestructive testing and evaluation of materials - Sistema di imaging iperspettrale per tecniche avanzate di diagnostica non distruttiva sui materiali"	Fondazione Cassa di Risparmio di Terni and Narni - CARIT	€45.000,00 & research grant RTD-A
TPP13 Sept. 2010 -Sept 2012	PI for the University of Perugia – Polo Scientifico Didattico di Terni of the research project " Electromagnetics techniques for the non-destructive evaluation of welds in complex metallic structures - Tecniche Elettromagnetiche per il controllo non distruttivo delle saldature in strutture metalliche complesse”	Fondazione Cassa di Risparmio di Terni and Narni - CARIT	€115.000,00
TPP14 May 2009 - May 2011	PI for the University of Perugia – Polo Scientifico Didattico di Terni of the research project “Quality control of industrial products through an ultrasonic imaging system based on pseudo-orthogonal sequences - Controllo della qualità dei prodotti industriali attraverso un sistema innovativo di imaging ultrasonoro basato su sequenze pseudo ortogonali)”	Fondazione Cassa di Risparmio di Terni and Narni - CARIT	€132.000,00

VI/C Outcomes obtained in the field of technology transfer (Patents, Spin-off, etc.)

Year	Title
2015 PATENT1	Inventor of the Italian Patent: Sistema di rilevamento di inquinanti in prodotti da forno / Method for the detection of foreign bodies in baked products, Patent n° 0001413533, Date of registration 23 January 2015, Patent request n° RM2012A000377, Inventors: BURRASCANO P, GHIRELLI F, MARTINI R, PENNISI P, RICCI M, SANTI R, SENNI L.
2014 PATENT2	Inventor of the Italian Patent: Metodo per la commutazione rapida in nanodispositivi MRAM / Method for the fast switching of MRAM nanodevices, Patent n° 0001406955, Date of registration 14 March 2014, Patent request n° TR2011A000001, Inventors: BURRASCANO P, CARPENTIERI M, RICCI

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M.	
2010 PATENT3	Inventor of the Italian Patent: Metodo e relativo apparato per il controllo non distruttivo di materiali conduttori / Method and related apparatus for the nondestructive testing of conductive materials, Patent n° 0001381699, Date of registration 27 September 2010, Patent request n° MI2007A000381, Inventors BURRASCANO P, CARPENTIERI M, RICCI M.
Sept. 2014	Participation as at the Technology-Industry Matching Seminar event, organized by Shenzhen – Hong Kong Productivity Training Institute in the framework of the Soft Landing Program for technology and innovation collaboration
Sept. 2012 Sept. 2015	Founder and Member of the University of Perugia SPIN-OFF: CADET Lab - Circuits and Algorithms for Diagnostics, Evaluation and Testing.
2011	Participation with the other founding members of CADET Lab in various events aimed at creating new businesses, such as the Start-Cup Umbria-Marche 2011, placing second with the CADET Lab spin-off business ideas, and the Working Capital Telecom Italia 2011 competition.
Apr 2012 - Apr 2014	Participation as researchers of the University of Perugia – Polo Scientifico Didattico di Terni at the project “IN.TE.R.A.M.NA (INnovazione, TEcnologie e Ricerca Avanzata per I Materiali ed i Nanomateriali)”, funded by the “Ministero dello Sviluppo Economico” in the call BANDO RIDITT 2010 “Bando nazionale per il finanziamento di progetti di diffusione e trasferimento tecnologico al sistema produttivo e la creazione di imprese ad alta tecnologia / Call for national funding for projects of dissemination and technology transfer projects to the productive system and the creation of high-tech companies”.

Part VII – Research Activities

Keywords:

Signal processing; Pulse compression; Deconvolution; Feature extraction; Imaging; Inverse problems; Nondestructive testing & evaluation; Eddy current; Thermography; Ultrasonics; Metamaterials; Spintronics; Systems and devices characterization and modelling; Quantum Information

Brief description

Marco Ricci is actively engaged in scientific research since 2003, with a primary focus on the study of electromagnetic and acoustic fields and their interactions with matter and materials, including aspects of heat theory.

Over the years, he investigated various key areas, mainly:

1. Nondestructive testing & evaluation.
2. Metamaterials.
3. Spintronics.
4. Quantum information and computation.

In all these fields, his research is characterized by a strong emphasis on theoretical modelling for the development of innovative algorithms and circuits in signal processing, measurement, and imaging protocols. This aim is supported by an enduring experimental validation effort, ensuring both the verification of models and the advancement of practical applications.

Below some details about the main achievements and the current directions of research:

1) Nondestructive testing & evaluation (NDT&E) is his main research interest and field of expertise.

The selected publications (SPs) reported in the following Part IX, all SP's except for SP5, SP12, SP16, reflect the variety of applications and research topics investigated in the field: eddy current testing, active thermography (with optical and electromagnetic excitation), ultrasonic inspection and pulse-compression as main signal processing technique. In particular, in these works he led [SP1-2, SP4, SP6-7, SP9, SP11, SP14-15] or co-led [SP3, SP8, SP10, SP13] the research activities, and he played also a central role in developing innovative NDT&E methods leveraging tailored signal and image processing algorithms, optimized pulse-

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compression techniques, inverse problems-solving approaches, features extraction and analysis protocols, and machine learning methods, as well as in designing experimental setups and sensors.

The developed methods have been applied along the years to the inspection of both metallic and composite samples and structures of industrial and civil interest. Additionally, they have also found diverse spin-off applications, including:

- for the NDT&E of Cultural Heritage, see [SP11] and the journal articles [J8-9, J14, J20, J29, J33, J40] listed at the end of the present document.
- for the NDT&E of lithium-ion cells, see [J6] and the ongoing project NDE4BATTs (RP3, Section VI/A).
- for the NDT&E of food samples, see [J54, J59], the “2-years Fixed Time Research Grant (RTD-A)” funded within DM 1062 -10.08.2021 (see Sect. IV/D), and the applied research projects TPP7, TPP8, Sect. VI/B.

In the field of NDT&E, Marco Ricci coordinated and contributed to numerous national and international research and applied research projects, including technology transfer initiatives, as described in Part VI.

Among the various projects, Marco Ricci was the proposer, PI and later Chief of the Supervisory Board of the MSCA-Initial Training Network project “*NDTonAIR - Training Network in Non-Destructive Testing and Structural Health Monitoring of Aircraft structures*” (RP13, Part. VI/A). The consortium included leading research groups and companies in the field of NDT&E, such as The University of Warwick (Prof. D.A. Hutchins), Newcastle University (Prof. G.Y. Tian), KU Leuven, (Prof M. Wewers, Prof. C. Glorieux), the Fraunhofer Institute (Dr. B. Köhler), RECENDT GmbH (Dr. P. Burgholzer), SIEMES AG (Dr. M. Goldammer, Dr. H. Mooshofer). In addition to generating numerous publications, the project fostered further research proposals, a broad network of scientific collaborations and, notably, contributed to the successful academic or industrial placement of the 15 trained fellows.

One of these spin-off activities from NDTonAIR is the application of cutting-edge NDT&E techniques to Cultural Heritage diagnostics. This topic further enlarged the research network including groups expert in THz NDT (GeorgiaTech Europe-CNRS, Prof D.S. Citrin, Prof. A. Locquet), hyperspectral imaging, and renowned heritage science and restoration institutes. These collaborations contributed to the recent approval of the MSCA Doctoral Network proposal “*UNVEIL - Unified Nondestructive Evaluation of Historical Artifacts*” (RP17, Sect. VI/A), in which several former NDTonAIR members are involved (Warwick, Newcastle, KU Leuven, Fraunhofer, with GeorgiaTech Europe-CNRS as Coordinator). In UNVEIL, Marco Ricci will serve as WP Leader of WP4-Training and will supervise Doctoral position n°2, focused on the topic “Pseudo-noise Pulse-compression thermography with multiwavelength lighting source for paintings stratigraphy”, based on the method presented in [SP1].

Besides this project and the ongoing research on NDT&E of Li-ion cells, current efforts are focused on integrating the measurement protocols developed along the years with key techniques such as machine learning (see for instance [J2, AP2, CP2, PP1, PP2]), advanced deconvolution algorithms (see [J4, J5] and [AP3] also attached as “TITLE 6”, an Invited Review article on “Stratigraphic reconstruction from terahertz and ultrasonic signals by deconvolution: a review”), non-linear methods for ultrasonic inspections (see [J7, PP7]), and diffusion-compensation methods, such as the Virtual Wave Concept and the diffusion-to-wave transformation (see [AP2, NCP1]). These last approaches enable the application of 3D imaging algorithms – originally developed for ultrasonic or electromagnetic waves (e.g. synthetic focusing, time-reversal) – to diffusion fields, significantly increasing the resolution.

For his contributions to NDT&E research, Marco Ricci has been also appointed as Associate Editor of leading journals in the field, and has served as lecturer in PhD courses and seminars and as PhD evaluator for various national and foreign institutions, See Sec IV/B, IV/C.

2) **Metamaterials** is another relevant current research field, and the main goal is to develop structures capable of enhancing the sensitivity of NDT&E techniques for both industrial and medical applications, for instance by developing lenses providing super-resolution, or structures acting as acoustic diodes, or spatial-frequency filters. The research activity on metamaterials started in collaboration with the University of

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Warwick, Prof. D.A. Hutchins, by the “Co-tutelle” joint supervision of the PhD student Stefano Laureti (see Part IV/D). This activity prosecuted through a UK research project in which Marco Ricci was involved since the writing of the proposal as external expert (see Part VI/A, RP12). The selected publication [SP5, “Additive manufacturing of metamaterials: A review”] summarizes the past results in this field of the research team, which includes University of Leeds (Prof. S Freear) and University of Nottingham (Prof. A. Clare) besides Warwick and the University of Calabria. Some of the structures studied, developed, and tested, which state-of-the art was also reviewed in SP5, are described in publications [J11, J15, J19, J28, J30, J53]. This research activity significantly contributed to the approval of the MSCA Doctoral Network project “*MetacMed: Acoustic and mechanical metamaterials for biomedical and energy harvesting applications*” (RP2, Part VI/A). The University of Calabria is the coordinator, PI Stefano Laureti, and The University of Warwick and the University of Leeds are members, funded by the UK government. The University of Messina (Prof. G.Finocchio) and the Polytechnic University of Bari (Prof. M. Carpentieri) are also members of the consortium. In MetacMed, Marco Ricci is the PhD supervisor of the two MSCA Doctoral Candidates recruited at the University of Calabria, see Part IV/D, and he supervise the research activity on designing Metamaterial lenses for ultrasonic sub-wavelength imaging in water.

3) In the field of Spintronics, Marco Ricci focused along the years on the application of spintronics structures and phenomena as sensors or devices for memory applications. The selected papers [SP12, SP16] are examples of these two applications respectively, and the PATENT2 is an example of how signal processing can be used to increase spintronic devices’ performances. On this field, he has an enduring collaboration with Prof. M. Carpentieri, Prof. R. Tomasello (Polytechnic University of Bari) and Prof. G.Finocchio (University of Messina). In this activity the expertise on signal-image processing on one side and on micro-nano magnetic simulations on the other side are combined to study and design spintronic devices and phenomena. Results from this collaboration, including also the research activity carried out within projects RP14 coordinated by Messina, and TP11 coordinated by Marco Ricci, see Part VI/A-B, are reported in publications [SP12, SP16, J18-19, J24-25, J30, J33]. Currently, he is investigating the interaction between magnetic skyrmions and the acoustic field (see Section V/F) and the use of spintronic devices as sensors for NDT&E applications, see RP7, Sect. VI/A.

4) Marco Ricci did his PhD on quantum information and computation, studying the theory of quantum measurements, quantum entanglement and operations on qubits, among which some “early” quantum circuits for quantum computation, which are now at the hearth of the emerging fields of Variational Quantum Algorithms and Quantum Neural Networks. Results on this topic are reported in his first publications [J73-82, CP54-57, BC6].

Part VIII – Summary of Scientific Achievements

VIII/A - Scientific Achievements in the temporal range 1 st January 2015 to today (Database: Scopus, 02/08/2025)	
Product type	Number
Total number of products indexed in the database	99
Articles in Journals with Impact Factor (see Part X/A)	56
Articles in Journals without Impact Factor (see Part X/B)	4
Conference Papers (see Part X/D)	34
Book Chapters (see Part X/H)	4
Book Editor (see Part X/G)	1
Hirsch (H) index (Considering all the 99 products)	23
Total Citations (Considering all the 99 products)	2020
Average Citations per product (Considering all the 99 products)	20,404
Total Impact Factor (calculated for the n°56 Articles in Journals with Impact Factor at the year of publication using the database Journal Citation Reports)	199,589

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Mean Impact Factor (Considering only the 56 Articles in Journals with Impact Factor)	3,564
Mean Impact Factor (Considering all the 99 products)	2,016
Normalized H Index over 10 years (Considering all the 99 products)	2,3
Hirsch (H) index (Considering only articles and conference papers)	23
Total Citations (Considering only articles and conference papers)	1968
Average Citations per product (Considering only articles and conference papers)	20,936
Mean Impact Factor (Considering only articles and conference papers)	2,123

VIII/B - Scientific Achievements since the 1st publication (2003) (Database: Scopus, data taken on 02/08/2025)

Product type	Number
Total number of products indexed in the database	148
Articles in Journals with Impact Factor (see Part X/A) *	82
Articles in Journals without Impact Factor (see Part X/B)	4
Conference Papers (see Part X/D)	57
Book Chapters (see Part X/H)	4
Book Editor (see Part X/G)	1
Hirsch (H) index (Considering all the 148 products)	28
Normalized H Index (over 22 years from the 1 st publication, considering all the 148 products)	1,273
Total Citations (Considering all the 148 products)	2887
Average Citations per product (Considering all the 148 products)	19,476
Total Impact Factor (calculated at the year of publication)	266,111
Mean Impact Factor (Considering only the 82 Articles in Journals with Impact Factor)	3,245
Mean Impact Factor (Considering all the 148 products)	1,798

* articles [J81] and [J82] are duplicated in scopus for the presence of late open access versions

VIII/C - Other data about scientific production (from 2003)

- Quartile of the articles in journals with Impact Factor: n° 52 Q1, n°26 Q2, and n°4 Q3, database: SCIMAGO.
- Database: Scopus, 2nd August 2025, all products including books: n° citations: 2887 by 2156 documents, h-index 28, n° of documents 148 (Articles*, Reviews, Conference Papers, Books and Book Chapters, *Two articles are duplicated in the database)
- Excluding self-citations: N° citations: 2421, h-index 27.
- Scopus author ID & page: ID: 7201452637, <https://www.scopus.com/authid/detail.uri?authorId=7201452637>
- WoS author ID & page: I-4593-2012, <https://www.webofscience.com/wos/author/record/I-4593-2012>
- OrcID page: <https://orcid.org/0000-0003-1938-1758>
- Scholar Google profile: <https://scholar.google.it/citations?user=3QGzokEAAAAJ&hl=it>

VIII/D - Italian National Scientific Qualification

- Italian Scientific Qualification for Full Professor, Call 2016, 4th session, Recruitment sector 09/E1, Scientific sector ING-IND\31 ELETTRONICA, achieved on date 28/03/2018, expiry date on 28/03/2030
- Italian Scientific Qualification for Associate Professor, Call 2012, Recruitment sector 09/E1, Scientific sector ING-IND\31 ELETTRONICA, achieved on date 03/02/2014, expiry date on 03/02/2026.

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Part IX– Selected Publications

N°	Selected Publication (SP)	Journal Impact Factor* @year of publication	Category Quartile @year of publication	n° citations Scopus**
SP1	M. Ricci, R. Zito, & S. Laureti, “Pseudo-noise pulse-compression thermography: A powerful tool for time-domain thermography analysis”, <i>NDT and E International</i>, 148, 103218, 2024. DOI: https://doi.org/10.1016/j.ndteint.2024.103218 CRedit authorship contribution statement (from the manuscript) Marco Ricci: Conceptualization, Funding acquisition, Investigation, Software, Supervision, Visualization, Validation, Writing – review & editing, Writing – original draft, (Note: corresponding author)	4.5	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	5
SP2	C. Ye, S. Laureti, H. Malekmohammadi, Y. Wang, & M. Ricci. “Swept-Frequency eddy current excitation for TMR array sensor and Pulse-Compression: Feasibility study and quantitative comparison of time and frequency domains processing”, <i>Measurement</i>, 187, 110249, 2022. DOI: https://doi.org/10.1016/j.measurement.2021.110249 CRedit authorship contribution statement (from the manuscript) Marco Ricci: Conceptualization, Data curation, Formal analysis, Investigation, Writing – original draft, Writing – review & editing.	5.6	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	22
SP3	Q. Yi, G.Y. Tian, H. Malekmohammadi, S. Laureti, M. Ricci, & S. Gao, “Inverse reconstruction of fibre orientation in multilayer CFRP using forward FEM and eddy current pulsed thermography”, <i>NDT and E International</i>, 122, 102474, 2021. DOI: https://doi.org/10.1016/j.ndteint.2021.102474 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Formal analysis, Writing – original draft, Writing – review & editing	4.683	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	28
SP4	H. Malekmohammadi, A. Migali, S. Laureti & M. Ricci. “A pulsed eddy current testing sensor made of low-cost off-the-shelf components: Overview and application to pseudo-noise excitation.” <i>IEEE Sensors Journal</i>, 21(20), 23578-23587, 2021. DOI: https://doi.org/10.1109/JSEN.2021.3108519 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Investigation, Software, Supervision, Visualization, Validation, Writing – review & editing, Writing – original draft, (Note: corresponding author)	4.325	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	13
SP5	M. Askari, D.A. Hutchins, P.J. Thomas, L. Astolfi, R.L. Watson, M. Abdi, M. Ricci, S. Laureti, L. Nie, S. Freear, R. Wildman, C. Tuck, M. Clarke, E. Woods, & A.T. Clare, “Additive manufacturing of metamaterials: A review”, <i>Additive Manufacturing</i>, 36, 101562, 2020. DOI: https://doi.org/10.1016/j.addma.2020.101562 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Investigation (bibliographic analysis acoustics metamaterials), Supervision, Writing – review & editing	10.998	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	399

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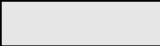
SP6	Q. Yi, H. Malekmohammadi, G.Y. Tian, S. Laureti, & M. Ricci . "Quantitative Evaluation of Crack Depths on Thin Aluminum Plate Using Eddy Current Pulse-Compression Thermography", <i>IEEE Transactions on Industrial Informatics</i> , 16 (6), 8848460, pp. 3963-3973, 2020 . DOI: https://doi.org/10.1109/TII.2019.2943669 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Software, Supervision, Writing – review & editing, Writing – original draft	10.215	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	45
SP7	Q. Yi, G. Y. Tian, H. Malekmohammadi, J. Zhu, S. Laureti, & M. Ricci , "New features for delamination depth evaluation in carbon fiber-reinforced plastic materials using eddy current pulse-compression thermography", <i>NDT & E International</i> , 102 , pp. 264-273, 2019 . DOI: https://doi.org/10.1016/j.ndteint.2018.12.010 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Software, Supervision, Writing – review & editing, Writing – original draft	3.461	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	94
SP8	P. Burrascano, S. Laureti, L. Senni, & M. Ricci , "Pulse Compression in Nondestructive Testing Applications: Reduction of Near Sidelobes Exploiting Reactance Transformation", <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 66 (5), 8450608, pp. 1886-1896, 2019 . DOI: https://doi.org/10.1109/TCSI.2018.2862868 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Investigation, Software, Supervision, Visualization, Writing – review & editing, Writing – original draft, (Note: corresponding author)	3.318	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	28
SP9	L. Ferrigno, M. Laracca, H. Malekmohammadi, G.Y. Tian & M. Ricci , "Comparison of time and frequency domain features' immunity against lift-off in pulse-compression eddy current imaging". <i>NDT & E International</i> , 107 , 102152. 2019 . DOI: https://doi.org/10.1016/j.ndteint.2019.102152 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Investigation, Software, Supervision, Visualization, Writing – review & editing, Writing – original draft	3.461	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	28
SP10	Q. Yi, G.Y. Tian, B. Yilmaz, H. Malekmohammadi, S. Laureti, M. Ricci & E. Jasiuniene, "Evaluation of debonding in CFRP-epoxy adhesive single-lap joints using eddy current pulse-compression thermography". <i>Composites Part B: Engineering</i> , 178 , 107461, 2019 . DOI: https://doi.org/10.1016/j.compositesb.2019.107461 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Software, Supervision, Writing – review & editing Writing – original draft	7.635	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	43
SP11	S. Laureti, S. Sfarra, H. Malekmohammadi, P. Burrascano, D.A. Hutchins, L. Senni, G. Silipigni, X.P.V. Maldague & M. Ricci , "The use of pulse-compression thermography for detecting defects in paintings", <i>NDT & E International</i> , 98 , pp. 147-154, 2018 . DOI: https://doi.org/10.1016/j.ndteint.2018.05.003 CRedit authorship contribution statement (self-declaration)	2.934	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	66

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Marco Ricci: Conceptualization, Funding acquisition, Investigation, Software, Supervision, Writing – review & editing, Writing – original draft				
SP12	R. Tomasello, K. Y. Gusliencko, M. Ricci , A. Giordano, J. Barker, M. Carpentieri, O. Chubykalo-Fesenko & G. Finocchio, “Origin of temperature and field dependence of magnetic skyrmion size in ultrathin nanodots”, <i>Physical Review B</i> , 97 (6), 060402, 2018 . DOI: https://doi.org/10.1103/PhysRevB.97.060402 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Formal analysis, Investigation, Visualization, Writing – review & editing, Writing – original draft	3.736	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	86
SP13	S. Laureti, M. Ricci , M. N. I. B. Mohamed, L. Senni, L. A. J. Davis & D. A. Hutchins, “Detection of rebars in concrete using advanced ultrasonic pulse compression techniques”, <i>Ultrasonics</i> , 85 , pp. 31-38, 2018 DOI: https://doi.org/10.1016/j.ultras.2017.12.010 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding Acquisition, Investigation, Software, Visualization, Writing – review & editing, Writing – original draft	2.598	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	45
SP14	G. Silipigni, P. Burrascano, D.A. Hutchins, S. Laureti, R. Petrucci, L. Senni, L. Torre & M. Ricci , “Optimization of the pulse-compression technique applied to the infrared thermography nondestructive evaluation” <i>NDT & E International</i> , 87 , 100-110, 2017 . DOI: https://doi.org/10.1016/j.ndteint.2017.01.011 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Investigation, Software, Supervision, Visualization, Writing – review & editing, Writing – original draft, (Note: corresponding author)	2.781	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	83
SP15	M. Ricci , G. Silipigni, L. Ferrigno, M. Laracca, I.D. Adewale & G.Y. Tian, “Evaluation of the lift-off robustness of eddy current imaging techniques”, <i>NDT & E International</i> , 85 , 43-52, 2017 . DOI: https://doi.org/10.1016/j.ndteint.2016.10.001 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Investigation, Software, Supervision, Visualization, Writing – review & editing, Writing – original draft, (Note: corresponding author)	2.781	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	44
SP16	G. Finocchio, M. Ricci , R. Tomasello, A. Giordano, M. Lanuzza, V. Puliafito, P. Burrascano, B. Azzerboni, and M. Carpentieri, “Skyrmion based microwave detectors and harvesting”, <i>Applied Physics Letters</i> , 107 (26), p.262401. 2015 . DOI: http://dx.doi.org/10.1063/1.4938539 CRedit authorship contribution statement (self-declaration) Marco Ricci: Conceptualization, Funding acquisition, Formal analysis, Investigation, Visualization, Writing – review & editing, Writing – original draft;	3.142	Scimago: Q1 Scopus: Q1 WoS JCI: Q1	94
Summary of indicators for the selected publications: Total impact factor: 76.17, Mean impact factor: 4.76 Total citations: 1123, Mean citations: 70.19 *The values of Journal Impact Factor at year of publication were taken from the Journal Citation Reports (JCR) database of the Web of Science (WoS) platform, Clarivate ** The number of citations were taken from Scopus database on 02/08/2025				

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Part X- List of all the Publications of the Candidate

X/A - Articles in journals with Impact Factor				
N°	Publication (chronological order from most recent to oldest)	Impact Factor* @year of publication	Quartile (Scimago) @year of publication	n° citations Scopus**
	 = Selected publications			
J1	M. Ricci , R. Zito, & S. Laureti, "Pseudo-noise pulse-compression thermography: A powerful tool for time-domain thermography analysis", <i>NDT and E International</i> , 148, 103218, 2024 . DOI: https://doi.org/10.1016/j.ndteint.2024.103218	4.5	Q1	5
J2	G. Angiulli, P. Burrascano, M. Ricci & M. Versaci, "Advances in the integration of artificial intelligence and ultrasonic techniques for monitoring concrete structures: a comprehensive review", <i>Journal of Composites Science</i> , 8(12), 531, 2024 . DOI: https://doi.org/10.3390/jcs8120531	3.7	Q1	4
J3	S. Laureti, P. Bison, G. Ferrarini, R. Zito, & M. Ricci , "Simultaneous Multi-frequency lock-in Thermography: A new flexible and effective Active Thermography scheme", <i>NDT and E International</i> , 146, 103144, 2024 . DOI: https://doi.org/10.1016/j.ndteint.2024.103144	4.5	Q1	3
J4	M. Zhai, S. Calvelli, H. Shi, M. Ricci , S. Laureti, P. Singh, H. Fu, A. Locquet, D.S. Citrin, "Comparative Study of Nondestructive Mapping of Conformal-Coating Thickness on Microelectronics by Terahertz Time-of-Flight Tomography", <i>IEEE Transactions on Semiconductor Manufacturing</i> , 37(4), pp. 499–504, 2024 DOI: https://doi.org/10.1109/TSM.2024.3447892	2.3	Q2	0
J5	H. Shi, S. Calvelli, M. Zhai, M. Ricci , S. Laureti, P. Singh, H. Fu, A. Locquet, D.S. Citrin, "Terahertz Nondestructive Characterization of Conformal Coatings for Microelectronics Packaging", <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 14(1), pp. 3-9, 2024 . DOI: https://doi.org/10.1109/TCPMT.2023.3347298	3	Q2	4
J6	X. C. A. Chacón, S. Laureti, M. Ricci & G. Cappuccino, "A review of non-destructive techniques for lithium-ion battery performance analysis", <i>World Electric Vehicle Journal</i> , 14(11), 305, 2023 DOI: https://doi.org/10.3390/wevj14110305	2.6	Q2	23
J7	S. Laureti, P. Burrascano, R. Zito & M. Ricci , "Optimal tapering data window for exponential swept-sine identification of non-linear systems models", <i>Measurement</i> , 219, 113283, 2023 DOI: https://doi.org/10.1016/j.measurement.2023.113283	5.2	Q1	4
J8	R. Vettrai, V. Valentini, P. Pogliani, M. Ricci , S. Laureti, S. Calvelli, R. Zito, L. Lanteri, C. Pelosi,	3.1	Q2	5

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	"Multi-Technique Approach by Traditional and Innovative Methodologies to Support the Restoration of a Wall Painting from the 16th Century at Palazzo Gallo in Bagnaia, Viterbo, Central Italy" <i>Buildings</i>, 13 (3), art. no. 783, 2023. DOI: https://doi.org/10.3390/buildings13030783			
J9	S. Calandra, I. Centauro, S. Laureti, M. Ricci, T. Salvatici, S. Sfarra, "Application of sonic, hygrometric tests and infrared thermography for diagnostic investigations of wall paintings in St. Panfilo's Church". <i>Applied Sciences</i>, 13(12), 7026, 2023. DOI: https://doi.org/10.3390/app13127026	2.5	Q2	4
J10	C. Ye, S. Laureti, H. Malekmohammadi, Y. Wang, & M. Ricci. "Swept-Frequency eddy current excitation for TMR array sensor and Pulse-Compression: Feasibility study and quantitative comparison of time and frequency domains processing", <i>Measurement</i>, 187, 110249, 2022. DOI: https://doi.org/10.1016/j.measurement.2021.110249	5.6	Q1	22
J11	L. Astolfi, L., D.A. Hutchins, R.L. Watson, P.J. Thomas, M. Ricci, L. Nie, S. Freear, T.P. Cooper, A.T. Clare, & S. Laureti. "Optimised polymer trapped-air lenses for ultrasound focusing in water exploiting Fabry-Pérot resonance", <i>Ultrasonics</i>, 125, 106781, 2022. DOI: https://doi.org/10.1016/j.ultras.2022.106781	4.2	Q1	7
J12	S. Laureti, M. Mercuri D.A. Hutchins, F. Crupi, & M. Ricci. "Modified FMCW Scheme for Improved Ultrasonic Positioning and Ranging of Unmanned Ground Vehicles at Distances < 50 mm", <i>Sensors</i>, 22 (24), art. no. 9899, 2022. DOI: https://doi.org/10.3390/s22249899	3.9	Q2	5
J13	M. Mercuri, T. Torfs, M. Rykunov, S. Laureti, M. Ricci, & F. Crupi. "Analysis of Signal Processing Methods to Reject the DC Offset Contribution of Static Reflectors in FMCW Radar-Based Vital Signs Monitoring", <i>Sensors</i>, 22 (24), art. no. 9697, 2022. DOI: https://doi.org/10.3390/s22249697	3.9	Q2	12
J14	T. Cavaleri, C. Pelosi, M. Ricci, S. Laureti, F.P. Romano, C. Caliri, B. Ventura, S. De Blasi, M. Gargano, "IR Reflectography, Pulse-Compression Thermography, MA-XRF, and Radiography: A Full-Thickness Study of a 16th-Century Panel Painting Copy of Raphael", <i>Journal of Imaging</i>, 8 (6), 150, 2022. DOI: https://doi.org/10.3390/jimaging8060150	3.2	Q2	7
J15	L. Nie, D.A. Hutchins, L. Astolfi, T.P. Cooper, A.T. Clare, C. Adams, R.L. Watson, P.J. Thomas, D.M.J. Cowell, J.R. McLaughlan, S. Laureti, M. Ricci, & S. Freear, "A Metallic Additively Manufactured Metamaterial for Enhanced Monitoring of Acoustic Cavitation-Based Therapeutic Ultrasound", <i>Advanced Engineering Materials</i>, 24 (4), art. no. 2100972, (2022). DOI: https://doi.org/10.1002/adem.202100972	3.6	Q1	9
J16	Q. Yi, G.Y. Tian, H. Malekmohammadi, S. Laureti, M. Ricci, & S. Gao, "Inverse reconstruction of fibre orientation in multilayer CFRP using forward FEM and eddy current pulsed thermography", <i>NDT and E International</i>, 122, art. no. 102474, 2021. DOI: https://doi.org/10.1016/j.ndteint.2021.102474	4.683	Q1	28

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J17	S. Amato, D.A. Hutchins, X. Yin, M. Ricci , S. Laureti. "Capacitive imaging using fused amplitude and phase information for improved defect detection", <i>NDT and E International</i> , 124, art. no. 102547, 2021 . DOI: https://doi.org/10.1016/j.ndteint.2021.102547	4.683	Q1	15
J18	H. Malekmohammadi, A. Migali, S. Laureti, & M. Ricci , "A Pulsed Eddy Current Testing Sensor Made of Low-Cost Off-the-Shelf Components: Overview and Application to Pseudo-Noise Excitation", <i>IEEE Sensors Journal</i> , 21 (20), pp. 23578-23587, 2021 . DOI: https://doi.org/10.1109/JSEN.2021.3108519	4.325	Q1	13
J19	L. Astolfi, D.A. Hutchins, P.J. Thomas, R.L. Watson, L. Nie, S. Freear, A.T. Clare, M. Ricci , & S. Laureti, "Holey-structured tungsten metamaterials for broadband ultrasonic sub-wavelength imaging in water", <i>Journal of the Acoustical Society of America</i> , 150 (1), pp. 74-81, 2021 . DOI: https://doi.org/10.1121/10.0005483	2.482	Q1	7
J20	M. Ricci , S. Laureti, H. Malekmohammadi, S. Sfarra, L. Lanteri, C. Colantonio, G. Calabrò, & C. Pelosi. "Surface and interface investigation of a 15th century wall painting using multispectral imaging and pulse-compression infrared thermography", <i>Coatings</i> , 11 (5), art. no. 546, 2021 . DOI: https://doi.org/10.3390/coatings11050546	3.236	Q2	24
J21	M.K. Rizwan, L. Laureti, H. Mooshofer, M. Goldammer, & M. Ricci , "Ultrasonic imaging of thick carbon fiber reinforced polymers through pulse-compression-based phased array", <i>Applied Sciences (Switzerland)</i> , 11 (4), art. no. 1508, pp. 1-15, 2021 . DOI: https://doi.org/10.3390/app11041508	2.838	Q2	15
J22	M. Askari, D.A. Hutchins, P.J. Thomas, L. Astolfi, R.L. Watson, M. Abdi, M. Ricci , S. Laureti, L. Nie, S. Freear, R. Wildman, C. Tuck, M. Clarke, E. Woods, & A.T. Clare, "Additive manufacturing of metamaterials: A review", <i>Additive Manufacturing</i> , 36 , art. no. 101562, 2020 . DOI: https://doi.org/10.1016/j.addma.2020.101562	10.998	Q1	399
J23	M. Ricca, G. Alexandrakis, A. Bonazza, F. Bruno, B.D. Petriaggi, D. Elkin, A. Lagudi, S. Nicolas, M. Novák, G. Papatheodorou, J. Prieto, M. Ricci , A. Vasiljevic, & M.F. La Russa. "A sustainable approach for the management and valorization of underwater cultural heritage: New perspectives from the TECTONIC project", <i>Sustainability (Switzerland)</i> , 12 (12), art. no. 5000, 2020 . DOI: https://doi.org/10.3390/su12125000	3.251	Q2	23
J24	D.A. Hutchins, R.L. Watson, L.A.J. Davis, L. Akanji, D.R. Billson, P. Burrascano, S. Laureti, & M. Ricci , "Ultrasonic propagation in highly attenuating insulation materials", <i>Sensors (Switzerland)</i> , 20 (8), art. no. 2285, 2020 . DOI: https://doi.org/10.3390/s20082285	3.576	Q2	19
J25	H. Malekmohammadi, S. Laureti, P. Burrascano, & M. Ricci ,	1.667	Q3	8

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

	"Comparison of optimisation strategies for the improvement of depth detection capability of Pulse-Compression Thermography", <i>Quantitative InfraRed Thermography Journal</i>, 17 (1), pp. 26-39, 2020. DOI: https://doi.org/10.1080/17686733.2019.1603824			
J26	D.A. Hutchins, P. Huthwaite, L.A.J. Davis, D.R. Billson, L. Senni, S. Laureti, & M. Ricci. "Mid Infrared Tomography of Polymer Pipes" <i>Journal of Nondestructive Evaluation</i>, 39 (3), art. no. 73, 2020. DOI: https://doi.org/10.1007/s10921-020-00714-0	1.995	Q2	1
J27	P. Burrascano, S. Laureti, M. Ricci, A. Terenzi, S. Cecchi, S. Spinsante, F. Piazza, "A Swept-Sine Pulse Compression Procedure for an Effective Measurement of Intermodulation Distortion", <i>IEEE Transactions on Instrumentation and Measurement</i>, 69 (4), art. no. 8695108, pp. 1708-1719, 2020. DOI: https://doi.org/10.1109/TIM.2019.2912591	4.016	Q1	9
J28	S. Laureti, D.A. Hutchins, L. Astolfi, R.L. Watson, P.J. Thomas, P. Burrascano, L. Nie, S. Freear, M. Askari, A. T. Clare & M. Ricci, "Trapped air metamaterial concept for ultrasonic sub-wavelength imaging in water". <i>Scientific reports</i>, 10 (1), 10601, 2020. DOI: https://doi.org/10.1038/s41598-020-67454-z	4.380	Q1	19
J29	S. Sfarra, S. Laureti, G. Gargiulo, H. Malekmohammadi, M.A. Sangiovanni, M.L. Russa, P. Burrascano, & M. Ricci, "Low thermal conductivity materials and very low heat power: A demanding challenge in the detection of flaws in multi-layer wooden cultural heritage objects solved by pulse-compression thermography technique", <i>Applied Sciences</i>, 10 (12), art. no. 4233, 2020. DOI: https://doi.org/10.3390/app10124233	2.679	Q2	18
J30	M. Askari, D.A. Hutchins, R.L. Watson, L. Astolfi, L. Nie, S. Freear, P.J. Thomas, S. Laureti, M. Ricci, M. Clark, A.T. Clare, "An ultrasonic metallic Fabry-Pérot metamaterial for use in water", <i>Additive Manufacturing</i>, 35, art. no. 101309, 2020. DOI: https://doi.org/10.1016/j.addma.2020.101309	10.998	Q1	7
J31	Q. Yi, H. Malekmohammadi, G.Y. Tian, S. Laureti, & M. Ricci. "Quantitative Evaluation of Crack Depths on Thin Aluminum Plate Using Eddy Current Pulse-Compression Thermography", <i>IEEE Transactions on Industrial Informatics</i>, 16 (6), art. no. 8848460, pp. 3963-3973, 2020. DOI: https://doi.org/10.1109/TII.2019.2943669	10.215	Q1	45
J32	S. Laureti, M.K. Rizwan, H. Malekmohammadi, P. Burrascano, M. Natali, L. Torre, M. Rallini, I. Puri, D.A. Hutchins, & M. Ricci "Delamination detection in polymeric ablative materials using pulse-compression thermography and air-coupled ultrasound", <i>Sensors</i>, 19 (9), no. 2198, 2019. DOI: https://doi.org/10.3390/s19092198	3.275	Q2	26
J33	S. Laureti, H. Malekmohammadi, M.K. Rizwan, P. Burrascano, S. Sfarra, M. Mostacci, & M. Ricci	3.275	Q2	20

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

	"Looking through paintings by combining hyper-spectral imaging and pulse-compression thermography", <i>Sensors</i> , 19 (19), no. 4335, 2019 . DOI: https://doi.org/10.3390/s19194335			
J34	Q. Yi, G. Y. Tian, H. Malekmohammadi, J. Zhu, S. Laureti, M. Ricci , "New features for delamination depth evaluation in carbon fiber-reinforced plastic materials using eddy current pulse-compression thermography", <i>NDT & E International</i> , 102, pp. 264-273, 2019 . DOI: https://doi.org/10.1016/j.ndteint.2018.12.010	3.461	Q1	94
J35	P. Burrascano, G. Di Capua, N. Femia, S. Laureti, & M. Ricci , "A Pulse Compression procedure for power inductors modeling up to moderate non-linearity", <i>Integration</i> , 66, pp. 16-23, 2019 . DOI: https://doi.org/10.1016/j.vlsi.2019.01.010	1.214	Q3	10
J36	Yi, Q., Tian, G. Y., Yilmaz, B., Malekmohammadi, H., Laureti, S., Ricci, M. , & Jasiuniene, E. "Evaluation of debonding in CFRP-epoxy adhesive single-lap joints using eddy current pulse-compression thermography", <i>Composites Part B: Engineering</i> , 178, 107461, 2019 . DOI: https://doi.org/10.1016/j.compositesb.2019.107461	7.635	Q1	43
J37	L. Senni, S. Laureti, M. K. Rizwan, P. Burrascano, D. A. Hutchins, L. A. J. Davis & M. Ricci "Multi-spectral near infrared NDE of polymer composites", <i>NDT & E International</i> , 102, pp. 281-286, 2019 . DOI: https://doi.org/10.1016/j.ndteint.2018.12.012	3.461	Q1	4
J38	M.K. Rizwan, L. Senni, P. Burrascano, S. Laureti, M. Goldammer, H. Mooshofer, R. Borgna, S. Neri, S & M. Ricci . "Contextual Application of Pulse-Compression and Multi-frequency Distance-Gain Size Analysis in Ultrasonic Inspection of Forging", <i>Journal of Nondestructive Evaluation</i> , 38 (3), art. no. 72, 2019 . DOI: https://doi.org/10.1007/s10921-019-0612-7	1.950	Q2	6
J39	P. Burrascano, S. Laureti, L. Senni, & M. Ricci , "Pulse Compression in Nondestructive Testing Applications: Reduction of Near Sidelobes Exploiting Reactance Transformation", <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 66 (5), 8450608, pp. 1886-1896, 2019 . DOI: https://doi.org/10.1109/TCSI.2018.2862868	3.318	Q1	28
J40	S. Laureti, C. Colantonio, P. Burrascano, M. Melis, G. Calabrò, H. Malekmohammadi, S. Sfarra, M. Ricci , & C. Pelosi, "Development of integrated innovative techniques for paintings examination: The case studies of The Resurrection of Christ attributed to Andrea Mantegna and the Crucifixion of Viterbo attributed to Michelangelo's workshop", <i>Journal of Cultural Heritage</i> , 40, pp. 1-16, 2019 . DOI: https://doi.org/10.1016/j.culher.2019.05.005	2.553	Q1	46
J41	S. Wu, B. Gao, Y. Yang, Y. Zhu, P. Burrascano, S. Laureti, M. Ricci , & Y. Wang. "Halogen optical referred pulse-compression thermography for defect detection of CFRP", <i>Infrared Physics and Technology</i> , 102, art. no. 103006, 2019 . DOI: https://doi.org/10.1016/j.infrared.2019.103006	2.379	Q2	42

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

J42	Ferrigno, L., Laracca, M., Malekmohammadi, H., Tian, G. Y., & Ricci, M. "Comparison of time and frequency domain features' immunity against lift-off in pulse-compression eddy current imaging". <i>NDT & E International</i> , 107, 102152, 2019 . DOI: https://doi.org/10.1016/j.ndteint.2019.102152	3.461	Q1	28
J43	S. Laureti, S. Sfarra, H. Malekmohammadi, P. Burrascano, D.A. Hutchins, L. Senni, G. Silipigni, X.P.V. Maldague & M. Ricci , "The use of pulse-compression thermography for detecting defects in paintings", <i>NDT & E International</i> , 98, pp. 147-154, 2018. DOI: https://doi.org/10.1016/j.ndteint.2018.05.003	2.934	Q1	66
J44	S. Laureti, G. Silipigni, L. Senni, R. Tomasello, P. Burrascano, & M. Ricci , "Comparative study between linear and non-linear frequency-modulated pulse-compression thermography", <i>Applied optics</i> , 57(18), D32-D39, 2018 . DOI: https://doi.org/10.1364/AO.57.000D32	1.973	Q1	49
J45	R. Tomasello, K. Y. Gusliencko, M. Ricci , A. Giordano, J. Barker, M. Carpentieri, O. Chubykalo-Fesenko & G. Finocchio, G. "Origin of temperature and field dependence of magnetic skyrmion size in ultrathin nanodots", <i>Physical Review B</i> , 97(6), 060402, 2018 . DOI: https://doi.org/10.1103/PhysRevB.97.060402	3.736	Q1	86
J46	A. Bernieri, L. Ferrigno, L., Laracca, M., Rasile, A., & M. Ricci , "Ultrasonic NDT on aluminium bars: An experimental performance comparison of excitation and processing techniques", <i>Measurement</i> , 128, pp. 393-402, 2018 . DOI: https://doi.org/10.1016/j.measurement.2017.10.040	2.791	Q1	13
J47	S. Laureti, M. Ricci , M. N. I. B. Mohamed, L. Senni, L. A. J. Davis & D. A. Hutchins, "Detection of rebars in concrete using advanced ultrasonic pulse compression techniques", <i>Ultrasonics</i> , 85, pp. 31-38, 2018 DOI: https://doi.org/10.1016/j.ultras.2017.12.010	2.598	Q1	45
J48	I. Mohamed, D. Hutchins, L. Davis, S. Laureti & M. Ricci , "Ultrasonic NDE of thick polyurethane flexible riser stiffener material", <i>Nondestructive Testing and Evaluation</i> , 32(4), 343-362, 2017 . DOI: https://doi.org/10.1080/10589759.2016.1241253	1.957	Q2	12
J49	R. Tomasello, V. Puliafito, E. Martinez, A. Manchon, M. Ricci , M. Carpentieri, & G. Finocchio, "Performance of synthetic antiferromagnetic racetrack memory: domain wall versus skyrmion", <i>Journal of Physics D: Applied Physics</i> , 50(32), 325302, 2017 . DOI: https://doi.org/10.1088/1361-6463/aa7a98	2.373	Q2	111
J50	G. Silipigni, P. Burrascano, D.A. Hutchins, S. Laureti, R. Petrucci, L. Senni, L. Torre & M. Ricci , "Optimization of the pulse-compression technique applied to the infrared thermography nondestructive evaluation", <i>NDT & E International</i> , 87, 100-110, 2017 . DOI: https://doi.org/10.1016/j.ndteint.2017.01.011	2.781	Q1	83
J51	M. Ricci , G. Silipigni, L. Ferrigno, M. Laracca, I.D. Adewale & G.Y. Tian, "Evaluation of the lift-off robustness of eddy current imaging techniques", <i>NDT & E International</i> , 85, 43-52, 2017 . DOI: https://doi.org/10.1016/j.ndteint.2016.10.001	2.781	Q1	44

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J52	R. Tomasello, M. Ricci , P. Burrascano, V. Puliafito, M. Carpentieri & G. Finocchio, "Electrical detection of single magnetic skyrmion at room temperature", <i>AIP Advances</i> , 7(5), 056022, 2017 . DOI: https://doi.org/10.1063/1.4975998	1.653	Q2	37
J53	S. Laureti, D.A. Hutchins, L.A.J. Davis, S.J. Leigh & M. Ricci , "High-resolution acoustic imaging at low frequencies using 3D-printed metamaterials", <i>AIP Advances</i> , 6(12), 121701, (2016). DOI: https://doi.org/10.1063/1.4968606	1.568	Q2	25
J54	L. Senni, P. Burrascano, M. Ricci , "Multispectral laser imaging for advanced food analysis", <i>Infrared Physics & Technology</i> , 77, pp. 179-192, (2016) DOI: 10.1016/j.infrared.2016.06.001	1.713	Q2	14
J55	G. Finocchio, M. Ricci , R. Tomasello, A. Giordano, M. Lanuzza, V. Puliafito, P. Burrascano, B. Azzerboni, and M. Carpentieri, "Skyrmion based microwave detectors and harvesting", <i>Applied Physics Letters</i> , 107(26), p.262401. 2015 . DOI: http://dx.doi.org/10.1063/1.4938539	3.142	Q1	94
J56	G. Betta, L. Ferrigno, M. Laracca, P. Burrascano, M. Ricci , G. Silipigni, "An experimental comparison of multi-frequency and chirp excitations for eddy current testing on thin defects", <i>Measurements</i> 63, 11, 207-220, 2015 . DOI: http://dx.doi.org/10.1016/j.measurement.2014.12.015	1.742	Q1	70
J57	M. Carpentieri, R. Tomasello, M. Ricci , P. Burrascano, and G. Finocchio, "Micromagnetic study of electrical-field-assisted magnetization switching in MTJ Devices", <i>IEEE Transactions of Magnetism</i> 50, 11, 6971412, 2014 . DOI: 10.1109/TMAG.2014.2327192	1.386	Q1	7
J58	M. Ricci , P. Burrascano, M. Carpentieri, R. Tomasello and G. Finocchio, "Chirp spectroscopy applied to the characterization of Ferromagnetic resonance in Magnetic Tunnel Junctions", <i>IEEE Transactions of Magnetism</i> 50, 11, 6971399, 2014 . DOI: 10.1109/TMAG.2014.2323269	1.386	Q1	0
J59	Senni, L., Ricci, M. , Palazzi, A., Burrascano, P., Pennisi, P., Ghirelli, F., "On-line automatic detection of foreign bodies in biscuits by infrared thermography and image processing", <i>Journal of Food Engineering</i> , 128, pp. 146 – 156, 2014 . DOI: http://dx.doi.org/10.1016/j.jfoodeng.2013.12.016	2.771	Q1	45
J60	Hutchins, D., Burrascano, P., Davis, L., Laureti, S., Ricci, M. , "Coded waveforms for optimised air-coupled ultrasonic nondestructive evaluation", <i>Ultrasonics</i> , 54 (7), pp.1745-1759, 2014 DOI: http://dx.doi.org/10.1016/j.ultras.2014.03.007	1.942	Q1	110
J61	Ricci, M. , Ficola, A., Fravolini, M.L., Battaglini, L., Palazzi, A., Burrascano, P., Valigi, P., (...), Rocchi, C. "Magnetic imaging and machine vision NDT for the on-line inspection of stainless steel strips", <i>Measurement Science and Technology</i> , 24 (2), 025401, 2013 . DOI: http://dx.doi.org/10.1088/0957-0233/24/2/025401	1.352	Q1	10

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

J62	Ricci, M. ; Senni, L.; Burrascano, P.; "Exploiting pseudo-random sequences to enhance noise immunity for air-coupled ultrasonic non-destructive testing", <i>IEEE Transactions on Instrumentation and Measurement</i> 61 , (11), 2905-2915, 2012 . DOI: 10.1109/TIM.2012.2200409	1.357	Q1	59
J63	M. Carpentieri, M. Ricci , P. Burrascano, L. Torres, G. Finocchio, "Noise-like sequences to resonant excite the writing of an universal memory based on Spin-Transfer-Torque MRAM", <i>IEEE Transactions on Magnetism</i> 48 , (9) 2407-2414, 2012 . DOI: 10.1109/TMAG.2012.2194718	1.422	Q1	17
J64	M. Carpentieri, M. Ricci , P. Burrascano, L. Torres, G. Finocchio, "Wideband microwave signal to trigger fast switching processes in magnetic tunnel junctions", <i>J. Appl. Phys.</i> 111 , 07C909, 2012 . DOI: http://dx.doi.org/10.1063/1.3675149	2.210	Q1	15
J65	M. Ricci , L. Senni, P. Burrascano, R. Borgna, S. Neri, M. Calderini, "Pulse-compression ultrasonic technique for the inspection of forged steel with high attenuation", <i>Insight - Non-Destructive Testing and Condition Monitoring</i> 54 , (2), 91-95, 2012 . DOI: http://dx.doi.org/10.1784/insi.2012.54.2.91	0.450	Q2	40
J66	M. Carpentieri, M. Ricci , P. Burrascano, L. Torres, "Spreading Sequences for fast switching process in spin-valve nanopillars", <i>Applied Physics Letters</i> 98 , (12) 122504, 2011 . DOI: http://dx.doi.org/10.1063/1.3569947	3.844	Q1	4
J67	E. Cardelli, E. Della Torre, A. Faba, M. Ricci , "Modeling of Vector Hysteresis in Si-Fe Magnetic Steels and Experimental Verification", <i>IEEE Transactions on Magnetism</i> 46 , (8), 3465 – 3468, 2010 . DOI: 10.1109/TMAG.2010.2045745	1.053	Q1	4
J68	P. Burrascano, E. Cardelli, E. Della Torre, G. Drisaldi, A. Faba & M. Ricci "Numerical Identification Procedure for a Phenomenological Vector Hysteresis Model", <i>IEEE Transactions on Magnetism</i> 45 , (3), pp. 1166-1169, 2009 . DOI: 10.1109/TMAG.2009.2012667	1.061	Q1	17
J69	Calcagno, S; Cardelli, E; Faba, A, et al., "The AMDE project: 3D volumetric anomalies reconstruction by eddy current testing", <i>International Journal Of Applied Electromagnetics and Mechanics</i> 28 , (1-2), pp. 321-327, 2008 . DOI: https://doi.org/10.3233/JAE-2008-991	0.055	Q3	1
J70	A. Pirani, M. Ricci , R. Specogna, A. Tamburrino, F. Trevisan, "Multi-frequency identification of defects in conducting media", <i>Inverse Problems</i> 24 , (3), 035011, 2008 . DOI: http://dx.doi.org/10.1088/0266-5611/24/3/035011	1.912	Q1	22
J71	P. Burrascano, M. Carpentieri, A. Pirani, M. Ricci , F. Tissi, "Time domain deconvolution approach relying on Galois sequences", <i>COMPEL</i> 26 , (12), 380-388, 2007 . DOI: http://dx.doi.org/10.1108/03321640710727737	0.226	Q2	9

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J72	P. Burrascano, M. Carpentieri, A. Pirani, M. Ricci , "Galois sequences in the nondestructive evaluation of metallic materials", <i>Measurement Science and Technology</i> , 17, (11), 2973-2979, 2006 . DOI: http://dx.doi.org/10.1088/0957-0233/17/11/017	1.228	Q1	27
J73	R. Filip, L. Mista Jr., F. De Martini, M. Ricci , F. Sciarrino, "Probabilistic minimal disturbance measurement of symmetrical qubit states", <i>Physical Review A</i> 74, (5), 052312, 2006 . DOI: http://dx.doi.org/10.1103/PhysRevA.74.052312	3.047	Q1	3
J74	F. Sciarrino, M. Ricci , F. De Martini, R. Filip, and L. Mista Jr., "Realization of a minimal disturbance quantum measurement", <i>Physical Review Letters</i> , 96, 020408, 2006 . DOI: http://dx.doi.org/10.1103/PhysRevLett.96.020408	7.072	Q1	76
J75	L. Masullo, M. Ricci, F. Sciarrino, V. Secondi & F. De Martini, "Experimental Realizations of the 1→M Universal Cloning Machine" <i>International Journal of Quantum Information</i> , 4(03), 495-506, 2006 . DOI: https://doi.org/10.1142/S0219749906001943	0.681	Q3	0
J76	L. Masullo, M. Ricci , and F. De Martini, "Generalized universal cloning and purification in quantum information by multistep state symmetrisation", <i>Physical Review A</i> 72, 060304, 2005 . DOI: http://dx.doi.org/10.1103/PhysRevA.72.060304	2.997	Q1	8
J77	M. Ricci , F. Sciarrino, N.J. Cerf, R. Filip, J. Fiurasek, & F. De Martini, "Separating the classical and quantum information by quantum cloning", <i>Physical Review Letters</i> 95, 090504, 2005 . DOI: http://dx.doi.org/10.1103/PhysRevLett.95.090504	7.489	Q1	46
J78	F. Sciarrino, C. Sias, M. Ricci , & F. De Martini, "Realization of universal optimal quantum machines by projective operators and stochastic maps", <i>Physical Review A</i> 70, 052305, 2004 . DOI: http://dx.doi.org/10.1103/PhysRevA.70.052305	2.902	Q1	35
J79	M. Ricci , F. De Martini, N.J. Cerf, R. Filip, J. Fiurasek, & C. Macchiavello, "Experimental purification of single qubits", <i>Physical Review Letters</i> 93, 170501, 2004 . DOI: https://doi.org/10.1103/PhysRevLett.93.170501	7.218	Q1	40
J80	F. Sciarrino, C. Sias, M. Ricci , & F. De Martini, "Quantum cloning and Universal NOT gate by teleportation", <i>Physics Letters A</i> , 323, 34-39 2004 . DOI: 10.1016/j.physleta.2004.01.063	1.454	Q2	24
J81	M. Ricci , F. Sciarrino, C. Sias, & F. De Martini, "Teleportation scheme implementing the Universal Optimal Quantum Cloning Machine and the Universal NOT gate", <i>Physical Review Letters</i> 92, 047901, 2004 . DOI: http://dx.doi.org/10.1103/PhysRevLett.92.047901	7.218	Q1	96
J82	F. De Martini, G.M.D'Ariano, A.Mazzei, and M. Ricci , "Exploiting quantum parallelism of entanglement for a complete experimental quantum characterization of a single qubit device", <i>Physical Review A</i> 67, 062307, 2003 . DOI: http://dx.doi.org/10.1103/PhysRevA.67.062307	2.589	Q1	50

*The values of Journal Impact Factor at year of publication were taken from the **Journal Citation Reports (JCR)**

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database of the Web of Science (WoS) platform, Clarivate

** The number of citations were taken from Scopus database on 02/08/2025

X/B - Articles in journals without Impact Factor (JW)

N°	Publication (chronological order from most recent to oldest)	Quartile (Scimago) @year of publication	n° Citations Scopus*
JW1	F. Groppi, D. Vigliotti, L. Lanteri, G. Agresti, A. Casoli, S. Laureti, M. Ricci & C. Pelosi. "Advanced documentation methodologies combined with multi-analytical approach for the preservation and restoration of 18th century architectural decorative elements at Palazzo Nuzzi in Orte (Central Italy)", <i>International Journal of Conservation Science</i> , 12 (3), pp. 921-934, 2021 .	Q1	5
JW2	R. Arcidiacono, P. Burrascano, M.F. La Russa, S. Laureti, L. Randazzo, & M. Ricci, "Ultrasonic nondestructive testing of building materials for the diagnosis and characterization of the decay due to salts crystallization", <i>International Journal of Conservation Science</i> , 11 (1), pp. 271-276, 2020 .	Q2	1
JW3	F. Bonifazi, P. Burrascano, A. Di Schino, S., Mengaroni, F. Petrucci, M. Ricci , & L. Senni. "Ultrasonic NDT of steel: Effect of the grain size on the ultrasonic propagation and attenuation", <i>Journal of Chemical Technology and Metallurgy</i> , 53(2), 346-353, 2018	Q2	4
JW4	G. Betta, P. Burrascano, L. Ferrigno, M. Laracca, M. Ricci & G. Silipigni. "An experimental comparison of complex excitation sequences for eddy current testing", <i>ACTA IMEKO</i> , 4(1), 128-134, 2015 .	Q4	2

* The number of citations were taken from Scopus database on 02/08/2025

X/C - Articles in progress (AP's)

AP1	R. Zito, H. Shi, M. Ricci , S. Laureti, D.S. Citrin, A. Locquet, "Stratigraphic reconstruction from terahertz and ultrasonic signals by deconvolution: a review", <i>Invited review submitted to NDT & E International (see Title n° 5 attached)</i>
AP2	D. Wang, M. Ricci , S. Laureti, X. Lu, R. Zito, S. Sfarra, P. Burgholzer, G. Tian, W.L. Woo, and Qiuji Yi, "Thermography-Tomographic Imaging: Integration of Pulse Compression Thermography and Virtual Wave for Physics-Based Learning", <i>submitted to IEEE Transactions on Industrial Informatics</i>
AP3	S. Leonori, R. Rocca, M. Ricci , F. M. Frattale Mascioli, "Smart Home Energy Flow Optimization, a Practical Case Study", <i>submitted to Applied Energy</i>

X/D – Indexed (Scopus) Proceedings & Conference Papers

N°	Publication	n° citations Scopus*
CP1	R. Zito, G. Ferrarini, S. Laureti, P. Bison & M. Ricci, "Estimating thermal properties of coatings by using multi-frequency lock-in thermography" <i>Proceedings of SPIE - The International Society for Optical Engineering</i> , 13047, art. no. 130470T, 2024 . DOI: https://doi.org/10.1117/12.3014082	0

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CP2	A. Salazar, R. Zito, S. Laureti, M. Ricci & L. Vergara, "An Experiment on Defect Detection in Active Thermography using Classifier Fusion" <i>Proceedings - 2023 International Conference on Computational Science and Computational Intelligence, CSCI 2023</i> , pp. 1184-1188, 2023 . DOI: https://doi.org/10.1109/CSCI62032.2023.00193	0
CP3	S. Laureti, S. Calvelli, S. Sfarra & M. Ricci , "The use of halogen lamps and pulse-compression thermography for the non-destructive evaluation of a ceramic tile", <i>2022 IEEE International Workshop on Metrology for Living Environment, MetroLivEn 2022 - Proceedings</i> , pp. 44-47, 2022 . DOI: https://doi.org/10.1109/MetroLivEnv54405.2022.9826979	0
CP4	R. Vettrai, V. Valentini, P. Pogliani, M. Ricci , S. Laureti, S. Calvelli, G. Messina, L. Lanteri, C. Pelosi, "Innovative diagnostics through Hypercolorimetric Multispectral Imaging and Pulse-compression Thermography to support the restoration of a 16th wall painting in Palazzo Gallo (Bagnaia, Italy)" <i>Proceedings of the 2022 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage, MetroArchaeo</i> (2022, October), pp. 90-95, 2022 . DOI: https://doi.org/10.21014/tc4-ARC-2022.018	0
CP5	M. Ricci , S. Laureti, C. Pelosi, G. Capriotti, G. Curini, L. Lanteri, G. Lepore, P. Pogliani, P. Roma, M. C. Tomassetti, L. Lanteri. "Pseudo-noise pulse compression thermography of the Raffaellino del Colle "Sacra famiglia con San Giovanni Battista" during painting restoration", <i>In Proceedings of the 2022 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage, MetroArchaeo</i> (2022, October), pp. 19-21, 2022 . DOI: https://doi.org/10.21014/tc4-ARC-2022.081	1
CP6	G. Agresti, P. Burrascano, G. Calabrò, C. Colantonio, L. Lanteri, S. Laureti, M. Melis, C. Pelosi, M. Ricci , S. Sfarra, "Hypercolorimetric multispectral Imaging and Pulse Compression thermography as innovative combined techniques for painting investigation: The case of a detached wall painting by Pastura", <i>Proceedings of the International Conference Florence Heri-tech: the Future of Heritage Science and Technologies</i> , 14-16 oct 2020, (Online Edition) , <i>IOP Conference Series: Materials Science and Engineering</i> , 949 (1), 012008, (2020) DOI: https://doi.org/10.1088/1757-899X/949/1/012008	3
CP7	M. Ricca, M. Ricci, S. Laureti, M.F. La Russa, "The role of geosciences and non-destructive methods in the TECTONIC project", <i>2020 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage</i> , pp. 543-547, 2020 . https://www.imeko.info/publications/tc4-Archaeo-2020/IMEKO-TC4-MetroArchaeo2020-103.pdf	0
CP8	P. Burrascano, S. Laureti, M. Ricci . "Pulse compression modeling for voltage driven ferrite inductors in moderate saturation" <i>26th IEEE International Conference on Electronics, Circuits and Systems, ICECS 2019</i> , 27-29 November 2019, Genova, art. no. 8964751, pp. 855-858, 2019 . DOI: https://doi.org/10.1109/ICECS46596.2019.8964751	1
CP9	L. Astolfi, M. Ricci , R.L. Watson, D.A. Hutchins, P.J. Thomas, M. Askari, A.T. Clare, L. Nie, S. Freear, S. Laureti, "Negative refraction in conventional and additively manufactured phononic crystals" <i>IEEE International Ultrasonics Symposium, IUS</i> , 2019-October, art. no. 8926236, pp. 2529-2532, 2019 . DOI: https://doi.org/10.1109/ULTSYM.2019.8926236	3

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CP10	P. Burrascano, S. Laureti & M. Ricci . "Accuracy Analysis of Harmonic Distortion Estimation Through Exponential Chirp Pulse Compression", <i>Proceedings of the 2019 International Conference on Control, Automation and Diagnosis, ICCAD 2019, 02-04 July 2019, Grenoble, France</i> , art. no. 9037908, 2019 . DOI: https://doi.org/10.1109/ICCAD46983.2019.9037908	1
CP11	M.K. Rizwan, S. Laureti, P. Burrascano, M. Giovannetti, A. Cellai, R. Watson, D.A. Hutchins & M. Ricci . "Pulse compression based phased array ultrasonic inspection: Optimization of the system and the code selection", in <i>Proceedings of Meetings on Acoustics -Acoustical Society of America- 2019 International Congress on Ultrasonics, 3–6 September 2019, Bruges, Belgium</i> , 38 (1), 055013, 2019 . DOI: https://doi.org/10.1121/2.0001147	0
CP12	M.K. Rizwan, S. Laureti, P. Burrascano, R. Petrucci, L. Torre, D.A. Hutchins & M. Ricci . "Air-coupled ultrasonic inspection of composite materials for aerospace applications", in <i>Proceedings of Meetings on Acoustics -Acoustical Society of America- 2019 International Congress on Ultrasonics, 3–6 September 2019, Bruges, Belgium</i> , 38 (1), 055015, 2019 . DOI: https://doi.org/10.1121/2.0001149	1
CP13	P. Burrascano, G. Di Capua, S. Laureti, M. Ricci , "Neural models of ferrite inductors non-linear behavior", <i>Proceedings - IEEE International Symposium on Circuits and Systems</i> , 26-29 May 2019, Sapporo Japan, art. no. 8702466, 2019 . DOI: https://doi.org/10.1109/ISCAS.2019.8702466	11
CP14	P. Burrascano, S. Laureti & M. Ricci . "Pulse compression optimization by reactance transformation: comparative application to different signal windows". In <i>2018 IEEE 61st International Midwest Symposium on Circuits and Systems (MWSCAS)</i> (2018, August), pp. 643-646, 2018 . DOI: 10.1109/MWSCAS.2018.8624025	1
CP15	P. Burrascano, S. Laureti & M. Ricci . "Harmonic Distortion Estimate for Damage Detection". In <i>NAECON 2018-IEEE National Aerospace and Electronics Conference</i> (2018, July), pp. 274-279, 2018 . DOI: 10.1109/NAECON.2018.8556701	4
CP16	S. Laureti, P. Burrascano, H. Malekhommadi, M. Ricci , & S. Sfarra, "Auto Regressive Exogenous Modeling of Pseudonoise Thermography for the Nondestructive Evaluation of Aerospace Materials". In <i>2018 5th IEEE International Workshop on Metrology for AeroSpace (MetroAeroSpace)</i> , 2018, June, pp. 62-67, 2018 . DOI: https://doi.org/10.1109/MetroAeroSpace.2018.8453581	0
CP17	P. Burrascano, S. Laureti, L. Senni & M. Ricci . "Range Sidelobes Reduction for Pulse-Compression NDT based on Reactance Transformation", In <i>2018 IEEE International Symposium on Circuits and Systems (ISCAS)</i> , 2018, May, pp. 1-5. IEEE. DOI: https://doi.org/10.1109/ISCAS.2018.8351657	2
CP18	P. Burrascano, S. Laureti & M. Ricci . "The Reactance Transformation for Near Sidelobes Reduction: A Comparison of Windowing Techniques". In <i>2018 15th International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD)</i> , 2018, July, pp. 37-40, 2018 . DOI: 10.1109/SMACD.2018.8434916	2
CP19	P. Burrascano, G. Di Capua, N. Femia, S. Laureti & M. Ricci . "Pulse compression for ferrite inductors modeling in moderate saturation". In <i>2018 15th International Conference on Synthesis, Modeling, Analysis and Simulation Methods</i>	4

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

	and Applications to Circuit Design (SMACD), 2018, July, pp. 229-232, 2018 . DOI: 10.1109/SMACD.2018.8434903	
CP20	H. Malekmohammadi, S. Laureti, M. Ricci , Q. Yi, J. Zhu, & G.Y. Tian, "An experimental comparison of LED and eddy current pulse-compression thermography on an impact damage CFRP benchmark sample". In <i>2018 IEEE Far East NDT New Technology & Application Forum (FENDT)</i> , 2018, July, pp. 13-17, 2018 . DOI: 10.1109/FENDT.2018.8681968	3
CP21	P. Burrascano, L. Senni, M. Ricci , "Near-infrared nondestructive evaluation of food based on multi-frequency Lock-in detection". In <i>2017 IEEE Biomedical Circuits and Systems Conference (BioCAS)</i> , 2017, October, pp. 1-4). 2017 . DOI: https://doi.org/10.1109/BIOCAS.2017.8325178	0
CP22	P. Burrascano, S. Laureti, M. Ricci , A. Terenzi & S. Cecchi, "A pulse compression procedure for an effective measurement of intermodulation distortion". In <i>Proceedings of the 10th International Symposium on Image and Signal Processing and Analysis</i> (pp. 74-79), 2017, September, IEEE, 2017 . DOI: https://doi.org/10.1109/ISPA.2017.8073572	2
CP23	P. Burrascano, S. Laureti, M. Ricci , L. Senni, G. Silipigni, & R. Tomasello. "Reactance transformation to improve range resolution in pulse-compression detection systems". In <i>2017 40th International Conference on Telecommunications and Signal Processing (TSP)</i> , pp. 480-483, 2017 . DOI: 10.1109/TSP.2017.8076032	9
CP24	P. Burrascano, S. Laureti, L. Senni, G. Silipigni, R. Tomasello & M. Ricci , "Chirp design in a pulse compression procedure for the identification of non-linear systems". In <i>2017 14th International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD)</i> , (2017, June), pp. 1-4, IEEE, 2017 . DOI: https://doi.org/10.1109/SMACD.2017.7981565	7
CP25	A. Bernieri, L. Ferrigno, M. Laracca, A. Rasile & M. Ricci . "Ultrasonic non-destructive testing on aluminium forged bars". In <i>2017 IEEE International Workshop on Metrology for AeroSpace (MetroAeroSpace)</i> (2017, June), pp. 223-227, 2017 . DOI: 10.1109/MetroAeroSpace.2017.7999569	5
CP26	P. Burrascano, M. Ricci , L. Senni, R. Tomasello & S. Laureti. "Improving range resolution in pulse-compression ultrasonic systems by optimal filtering". In <i>2017 International Conference on Applied System Innovation (ICASI)</i> (2017, May), pp. 1690-1693, IEEE, 2017 . DOI: 10.1109/ICASI.2017.7988262	0
CP27	P. Burrascano, M. Ricci , L. Senni & S. Laureti. "Efficient modeling of hysteretic systems". In <i>2017 International Conference on Applied System Innovation (ICASI)</i> (2017, May), pp. 1694-1697, IEEE, 2017 . DOI: 10.1109/ICASI.2017.7988263	0
CP28	M. N. I. B. Mohamed, S. Laureti, L. A. J. Davis, D. A. Hutchins, M. Ricci & P. Burrascano, "Low frequency coded waveform for the inspection of concrete structures," <i>2015 IEEE International Ultrasonics Symposium (IUS)</i> , Taipei, Taiwan, pp. 1-4, 2015 . DOI: 10.1109/ULTSYM.2015.0335	3
CP29	P. Burrascano, S. Laureti, D. Hutchins, M. Ricci & L. Senni,	5

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

	"A pulse compression procedure for the measurement and characterization of non-linear systems based on exponential chirp signals," <i>2015 IEEE International Ultrasonics Symposium (IUS)</i> , Taipei, Taiwan, 2015, pp. 1-4, 2015 . DOI: 10.1109/ULTSYM.2015.0435	
CP30	S. Laureti, O. Akanji, L.A.J. Davis, S.J. Leigh, D.A. Hutchins & M. Ricci , "Design and characterization of 3D-printed phononic crystals for sub-MHz ultrasound manipulation", In <i>2015 IEEE International Ultrasonics Symposium (IUS)</i> , Taipei, Taiwan, 2015, pp. 1-4, 2015 . DOI: 10.1109/ULTSYM.2015.0452	3
CP31	P. Burrascano, M. Ricci , L. Senni, D.A. Hutchins & S. Laureti "Efficient modelling of nonlinear ultrasonic NDT systems" Proceedings of the 54th Annual British Conference of Non-Destructive Testing, NDT 2015, 2015	0
CP32	P. Burrascano, S. Laureti, M. Ricci and L. Senni, "Accurate modelling of Hysteretic Systems for an efficient energetic conversion," <i>2015 International Conference on Renewable Energy Research and Applications (ICRERA)</i> , Palermo, Italy, 2015, pp. 1142-1146, 2015 . DOI: 10.1109/ICRERA.2015.7418588	4
CP33	M. Ricci , G. Silipigni, L. Ferrigno, M. Laracca, I.D. Adewale, & G.Y. Tian, "Analysis of the influence of lift-off variation on Eddy-Current images". In <i>Metrology for Aerospace (MetroAeroSpace)</i> , <i>IEEE</i> , 2015, June, pp. 182-187, 2015 . DOI: 10.1109/MetroAeroSpace.2015.7180650	7
CP34	G. Betta, L. Ferrigno, M. Laracca, H.G.Ramos, M. Ricci , A.L. Ribeiro & G. Silipigni, "Fast 2D crack profile reconstruction by image processing for Eddy-Current Testing". In <i>Metrology for Aerospace (MetroAeroSpace)</i> , <i>IEEE</i> , 2015, June, pp. 341-345, 2015 . DOI: 10.1109/MetroAeroSpace.2015.7180679	13
CP35	S. Laureti, L.A.J. Davis, M. Ricci & D.A. Hutchins, "The study of broadband acoustic metamaterials in air," In <i>2014 IEEE International Ultrasonics Symposium</i> , Chicago, IL, USA, 2014, 6932095, pp. 1344-1347, 2014 . DOI: 10.1109/ULTSYM.2014.0332	6
CP36	S. Laureti, L.A.J. Davis, M. Ricci & D.A. Hutchins, "The use of Pulse Compression and Frequency Modulated Continuous Wave to improve Ultrasonic Non Destructive Evaluation of highly-scattering materials" In <i>2014 IEEE International Ultrasonics Symposium</i> , Chicago, IL, USA, 2014, 6932286, 1940-1943, 2014 . DOI: 10.1109/ULTSYM.2014.0482	6
CP37	L. Battaglini, P. Burrascano, A. De Angelis, A. Moschitta, M. Ricci , "A low-cost ultrasonic rangefinder based on frequency modulated continuous wave", In <i>20th IMEKO TC4 Symposium- IWADC2014, Benevento September 2014</i> , 109364, 1122-1126, 2014 , Available on imeko.org https://www.imeko.org/publications/tc4-2014/IMEKO-TC4-2014-344.pdf	5
CP38	P. Burrascano, M. Ricci , L. Battaglini, L. Senni, "Nonlinear convolution and fourier series coefficients estimate", in <i>2nd IEEE China Summit and International Conference on Signal and Information Processing, IEEE ChinaSIP 2014</i> , 6889340, 728-732, 2014 . DOI: 10.1109/ChinaSIP.2014.6889340	10
CP39	G. Betta, L. Ferrigno, M. Laracca, P. Burrascano & M. Ricci , "Optimized complex signals for Eddy Current Testing," <i>2014 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) Proceedings</i> , Montevideo, Uruguay, pp. 1120-1125, 2014	7

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	DOL: 10.1109/I2MTC.2014.6860917	
CP40	G. Betta, P. Burrascano, L. Ferrigno, M. Laracca, M. Ricci & G. Silipigni, "On the Use of Complex Excitation Sequences for Eddy Current Testing", in <i>19th Symposium IMEKO TC 4 Symposium and 17 th IWADC Workshop Advances in Instrumentation and Sensors Interoperability</i> , July 18-19, 2013, Barcelona, Spain, 2013 Available on imeko.org: https://www.imeko.org/publications/tc4-2013/IMEKO-TC4-2013-101.pdf	5
CP41	S. Caporale, S. Callegari, M. Ricci & P. Burrascano, "Constant envelope pseudo orthogonal excitations for ultrasound testing," <i>2013 18th International Conference on Digital Signal Processing (DSP)</i> , Fira, Greece, 2013 DOI: 10.1109/ICDSP.2013.6622751	3
CP42	M. Ricci , S. Laureti, D. Hutchins & L. Davis, "A comparison of coded waveforms for air-coupled ultrasonic inspection," <i>2013 18th International Conference on Digital Signal Processing (DSP)</i> , Fira, Greece, 2013 DOI: 10.1109/ICDSP.2013.6622786	1
CP43	L. Battaglini, M. Ricci & L. Senni, "Frequency modulated continuous wave ultrasonic radar," <i>2013 18th International Conference on Digital Signal Processing (DSP)</i> , Fira, Greece, 2013 DOI: 10.1109/ICDSP.2013.6622793	4
CP44	S. Callegari, M. Ricci , S. Caporale , M. Monticelli , M. Erol, L. Senni, R. Rovatti, G. Setti & P. Burrascano "From chirps to random-FM excitations in pulse compression ultrasound systems" in <i>2012 IEEE International Ultrasonics Symposium</i> , Dresden, Germany, 2012, pp. 471-474, 7-10 Oct., 2012 DOI: 10.1109/ULTSYM.2012.0117	7
CP45	M. Ricci , S. Callegari, S. Caporale , M. Monticelli , L. Battaglini, M. Erol, L. Senni, R. Rovatti, G. Setti & P. Burrascano "Exploiting Non-Linear Chirp and sparse deconvolution to enhance the performance of pulse-compression ultrasonic NDT," in <i>2012 IEEE International Ultrasonics Symposium</i> , Dresden, Germany, 2012, pp.1489-1492, 7-10 Oct. 2012 , DOI: 10.1109/ULTSYM.2012.0372	23
CP46	M. Ricci , A. Ficola, M.L. Fravolini, L. Battaglini, V. Brunori, A. Palazzi, M. Pastorelli, P. Burrascano, P. Valigi, L. Appolloni & S. Cervo, "Machine vision and magnetic imaging NDT for the on-line inspection of stainless steel strips". <i>2012 IEEE International Conference on Imaging Systems and Techniques Proceedings</i> , Manchester, UK, 415-420, 2012 DOI: https://doi.org/10.1109/IST.2012.6295531	3
CP47	P. Burrascano, M. Cacciola, F.C. Morabito & M. Ricci "Higher order based image deconvolution in electromagnetic non destructive evaluation of metallic materials". In <i>Frontiers in Artificial Intelligence and Applications</i> , IOS Press, vol.226: <i>Neural Nets WIRN10</i> , pp. 125-132, 2011 . DOI: https://doi.org/10.3233/978-1-60750-692-8-125	0
CP48	M. Ricci , L. Senni, P. Burrascano, R. Borgna, S. Neri, M. Calderini "Pulse-compression ultrasonic technique for the inspection of forged steel with high dissipation" <i>Proceedings of the 50th Annual British Conference of Non-Destructive Testing, NDT 2011 held in conjunction with the Material Testing Exhibition, MT2011</i> , pp 87-98, 2011	0
CP49	M. Ricci, L. Senni and P. Burrascano "Virtual instrument for air-coupled ultrasound NDT application based on Psuedo-Noise sequences", <i>International Workshop on ADC Modelling, Testing and Data Converter Analysis and Design and IEEE 2011 ADC Forum</i> June 30 - July 1, 2011. Orvieto, Italy, 2011	3

Allegato B - Marco Ricci - Curriculum Vitae ai fini della pubblicazione

CP50	L. Battaglini, P. Burrascano, A. Canova, F. Ficili, M. Ricci , D. Rossi, F. Sciacca, B. Vusini, "Non-destructive Control of Metallic Plate with Magnetic Techniques", In: <i>Mukhopadhyay, S.C., Lay-Ekuakille, A., Fuchs, A. (eds) New Developments and Applications in Sensing Technology. Lecture Notes in Electrical Engineering</i> , vol 83. Springer, Berlin, Heidelberg, 2011 . DOI: https://doi.org/10.1007/978-3-642-17943-3_5	1
CP51	L. Battaglini, P. Burrascano, M. Ricci , "Design of a welding seam inspection apparatus for on-line automated evaluation" <i>Proceedings of the 49th Annual British Conference of Non-Destructive Testing, NDT 2010</i> , pp 87-98, 2011	0
CP52	P. Burrascano, A. Pirani, M. Ricci , "Exploiting Pseudo Orthogonal PN-Sequences for Ultrasonic Imaging System", in <i>2009 WRI World Congress on Computer Science and Information Engineering, IEEE Conferences 7</i> , pp. 181 – 185, 2009 DOI: https://doi.org/10.1109/CSIE.2009.441	3
CP53	A. Pirani, M. Ricci , A. Tamburrino & S. Ventre, "3D Reconstruction of flaws in metallic materials by eddy currents inspections", <i>Proceedings of the 12th International Workshop on Electromagnetic Nondestructive Evaluation (ENDE'07)</i> In <i>Electromagnetic Nondestructive Evaluation (XI)</i> (pp. 109-116). IOS Press, 2008 DOI: http://dx.doi.org/10.3233/978-1-58603-896-0-109	6
CP54	P. Burrascano, E. Cardelli, A. Faba, A. Pirani, & M. Ricci , "Penetrating cracks assessment in metallic plates", <i>12th Biennial IEEE Conference on Electromagnetic Field Computation, CEFC 2006</i> , 2006 DOI: http://dx.doi.org/10.1109/CEFC-06.2006.1633206	1
CP55	F. De Martini, L. Masullo, M. Ricci , F. Sciarrino, and V. Secondi, "Manipulating quantum information via quantum cloning", <i>J. Opt. B: Quantum Semiclass. Opt.</i> 7, 12, 2005 . DOI: 10.1088/1464-4266/7/12/032	1
CP56	L. Masullo, M. Ricci & F. De Martini, "Experimental realization of a single qubits purification protocol", <i>Fortschritte der Physik: Progress of Physics</i> , 52(11-12), 1064-1069, 2004 . DOI: https://doi.org/10.1002/prop.200410176	0
CP57	A. Mazzei, M. Ricci , F. De Martini, and G.M. D'Ariano, "Pauli tomography: complete characterization of a single qubit device", <i>Fortschritte der Physik</i> 51, 342, 2003 . DOI: https://doi.org/10.1002/prop.200310047	6

* The number of citations were taken from Scopus database on 02/08/2025

X/E – Non-indexed Proceedings & Conference Papers (NCP)

N°	Publication
NCP1	R. Zito, S. Laureti & M. Ricci , "Application of Virtual Wave thermography for the inspection of paintings", <i>14th International Conference on non-destructive investigations and microanalysis for the diagnostics and conservation of cultural and environmental heritage - 2023 - Brescia (Italy) (art 2023)</i> , 2023 . ISBN 979-12-5544-031-4 Available on ndt.net: https://www.ndt.net/article/art2023/papers/art2023_p183.pdf
NCP2	P. Hirsch, H. Malekmohammadi, S. Ahmadi, C. Hassenstein, N. Pech-May, S. Laureti, M. Ricci & M. Ziegler,

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	"Temporal shaping and pulse-compression in thermography using laser heating". <i>Proceedings of the 2020 International Conference on Quantitative InfraRed Thermography</i>, 6 – 10 July 2018, Porto, Portugal, 2023. DOI: https://doi.org/10.21611/qirt.2020.048
NCP3	M. Ricci, S. Laureti, M.K. Rizwan & P. Burrascano, "Optimized simultaneous Multi-Frequency Lock-in Thermography." <i>Proceedings of the 2020 International Conference on Quantitative InfraRed Thermography</i>, 6 – 10 July 2018, Porto, Portugal, 2023. DOI: https://doi.org/10.21611/qirt.2020.104
NCP4	M. Ricci, S. Laureti, P. Burrascano, D.A. Hutchins, G. Tian & B. Gao, B. "Complementary Barker Code excitation for Pulse-compression Thermography." <i>Proceedings of the 2020 International Conference on Quantitative InfraRed Thermography</i>, 6 – 10 July 2018, Porto, Portugal, 2023. DOI: https://doi.org/10.21611/qirt.2020.105
NCP5	P. Burrascano, A. Di Bella, A. Gliozzi, S. Laureti, M. Ricci, M.K. Rizwan, M. Scalerandi & M. Tortello. "A comparison of scaling subtraction and pulse compression methods for the analysis of elastic nonlinearity", in <i>Proceedings of Meetings on Acoustics -Acoustical Society of America- 2019 International Congress on Ultrasonics</i>, 3–6 September 2019, Bruges, Belgium, 38 (1), 065013, 2019. DOI: https://doi.org/10.1121/2.0001182
NCP6	H. Malekmohammadi, S. Laureti, L. Senni, P. Burrascano & M. Ricci. "Comparison of optimization strategies for the improvement of depth detection capability of Pulse Compression Thermography". <i>14th International Conference on Quantitative Infrared Thermography 2018, June, Berlin, Germany</i>, 2019. DOI: https://doi.org/10.21611/qirt.2018.047
NCP7	M.K. Rizwan, H. Malekmohammadi, S. Laureti, P. Burrascano, D.A. Hutchins, G. Tian, J. Zhu, Q. Yi & M. Ricci, "The Use of Pulse Compression Technique in Non-Destructive Testing: A Review", <i>10th International Symposium on NDT in Aerospace</i>, Oct 2018, Dresden, Germany, 2019. https://www.ndt.net/?id=23912
NCP8	Q. Yi, G. Tian, J. Zhu, S. Laureti, H. Malekmohammadi & M. Ricci, "Quantitative evaluation of delamination depth in CFRP based on pulse compression eddy current pulse thermography". <i>10th International Symposium on NDT in Aerospace</i>, Oct 2018, Dresden, Germany, 2019. https://www.ndt.net/?id=23902
NCP9	M.K. Rizwan, L. Senni, S. Laureti P. Burrascano, & M. Ricci. "Optimizing Ultrasonic Forgings Inspection by combining Pulse-Compression technique, multi-frequency AVG analysis and phased-array probes". <i>12th European Conference on Non-Destructive Testing (ECNDT 2018)</i>, Gothenburg 2018, June 11-15. e-<i>Journal of Nondestructive Testing</i>, 23(8), 2018. https://www.ndt.net/?id=22986
NCP10	M. N. I. B. Mohamed, L. A. J. Davis, D. A. Hutchins, S. Laureti, & M. Ricci "Pulse Compression Ultrasonic Non-Destructive Evaluation Of Thick Polymer Samples." In <i>11th European Conference on Non-Destructive Testing (ECNDT 2014)</i>, October 6-10, Prague, Czech Republic, 2014. available on ndt.net: https://www.ndt.net/events/ECNDT2014/app/content/Paper/122_Mohamed.pdf
NCP11	P. Burrascano, L. Senni & M. Ricci, "Application of pseudo - orthogonal codes at the Stimulated - Thermography Non Destructive Testing". In <i>12th International Conference on Quantitative Infrared Thermography</i>, France, Bordeaux, 7 - 11 July 2014. Available on ndt.net: https://www.ndt.net/?id=17716

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NCP12	M. Barbieri, F. De Martini, P. Mataloni, M. Ricci & F. Sciarrino, Beyond quantum cloning in Oberwolfach Reports n 4/2005 of the conference "Entanglement and Decoherence: Mathematics and Physics of Quantum Information and Computation". DOI: https://doi.org/10.4171/OWR/2005/04
NCP13	M. Ricci , L. Masullo and F. De Martini, "Experimental purification of single qubits", in <i>Seventh International Conference on Quantum Communication, Measurement and Computing QCMC 2004</i> , American Institute of Physics, Conference Proceedings Vol. 734 , New York, 2004; DOI: http://dx.doi.org/10.1063/1.1834402 ;
NCP14	M. Ricci , F. Sciarrino, C. Sias, and F. De Martini, "Teleportation scheme implementing the Universal Optimal Quantum Cloning Machine and the Universal NOT gate", proceedings of the conference <i>ICCSUR: Eighth International Conference on Squeezed States and Uncertainty Relations</i> , Rinton Press 2003.

X/F – Proceedings & Conference Papers in Progress (PP)

PP1	P. Burrascano, F. Medaglia, S. Laureti, M. Ricci , G. Angiulli & M. Versaci, "Efficient ultrasonic data processing for crack detection in concrete structures", <i>2025 International Joint Conference on Neural Networks (IJCNN)</i> , 30 Jun-5 Jul 2025, Roma, Italy, 2025 (in publication on IEEE eXplore)
PP2	A. Salazar, R. Zito, S. Laureti, M. Ricci & L. Vergara, "Classifier fusion for the detection of defects from active thermography", <i>IWANN 2025 - 18th International Work-Conference on Artificial Neural Networks</i> , A Coruña, Spain, 16-18 June 2025 (in publication on Springer Nature Computer Science book series)

X/G - Book (Editor)

B1	Eds. P. Burrascano, S. Callegari, A. Montisci, M. Ricci , M. Versaci, "Ultrasonic Non-Destructive Evaluation Systems: Industrial Application Issues", <i>Springer International Publishing Switzerland</i> 2015 , ISBN: 978-3-319-10565-9 (Print) 978-3-319-10566-6 (Online) DOI: https://doi.org/10.1007/978-3-319-10566-6 (Indexed in Scopus, n° citations 43)
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X/H - Book (Chapters' author)

BC1	S. Laureti, M Ricci & P. Burrascano, "Step Heating and Pulse-Compression Thermography" in <i>Nondestructive Testing Handbook: Vol. 4, Thermal and Infrared Testing (IR)</i> , The American Society for Nondestructive Testing, 4 th ed., Chapter 11 – Part 4, pp 404-421, 2024 . ISBN: 978-1-57117-488 (print), 978-1-57117-489-5 (ebook)
BC2	S. Caporale, S. Callegari, D.A. Hutchins, S. Laureti, P. Burrascano & M. Ricci , "Excitation and Deconvolution in Ultrasound Nondestructive Testing Systems." In <i>Ultrasonic Nondestructive Evaluation Systems</i> , pp. 85-140. Springer International Publishing, 2015 . DOI: https://doi.org/10.1007/978-3-319-10566-6_4 (Indexed in Scopus, n° citations 1)
BC3	S. Caporale, S. Callegari, M. Ricci & P. Burrascano, "Excitations and Signal Processing for Multiprobe Setups." In <i>Ultrasonic Nondestructive Evaluation Systems</i> , pp. 141-171. Springer International Publishing, 2015 . DOI: https://doi.org/10.1007/978-3-319-10566-6_5 (Indexed in Scopus, n° citations 3)
BC4	L. Senni, L. Battaglini, P. Burrascano, S. Laureti & M. Ricci

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	"Industrial applications: Ultrasonic inspection of large forgings." In <i>Ultrasonic Nondestructive Evaluation Systems</i> , pp. 297-320. Springer International Publishing, 2015 . DOI: https://doi.org/10.1007/978-3-319-10566-6_9 (Indexed in Scopus, n° citations 4)
BC5	L. Battaglini, P. Burrascano, M. Ricci & L. Senni, "Ultrasonic Frequency Modulated Continuous Wave for Range Estimation." In <i>Ultrasonic Nondestructive Evaluation Systems</i> , pp. 297-320. Springer International Publishing, 2015 . DOI: https://doi.org/10.1007/978-3-319-10566-6_12 (Indexed in Scopus, n° citations 1)
BC6	F. De Martini, M. Ricci , and F. Sciarrino, "Unitary and non unitary operations on qubits in modern quantum information", <i>Lecture Notes in Physics: Quantum State Estimation</i> ; Vol. 649 , Publisher: Springer-Verlag, (Eds. M. Paris, and J. Rehacek) 2004 . ISBN-10: 3540223290 ISBN-13: 978-3764375157

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