

# **Curriculum Vitae in breve**

## **Michele Dassisti**

Professore ordinario di "Sistemi e Tecnologie di Produzione" presso l'Università Politecnica di Bari, ha una notevole esperienza accademica ed industriale nel campo della ricerca dal 1988, La ricerca in questo settore è stata promossa da diversi gruppi di ricerca nazionali e internazionali, con l'ausilio di gruppi multidisciplinari. Gli argomenti di ricerca spaziano dal settore specifico "Ingegneria industriale e manifatturiera". Negli ultimi anni ha saputo portare avanti con successo progetti di miglioramento continuo dei processi industriali in 20 aziende italiane e internazionali. Coordinatore scientifico locale di progetti nazionali finanziati dalla ricerca (PRIN, PON, PAC) e di progetti internazionali (EU STRIDE; ESPRIT-FP5; LEONARDO-FP5; INTEROP-FP6 ADAPT; INTERREG-FP6; GALILEO FP7; PICS CNRS). attività significative nell'ambito del coinvolgimento pubblico, organizzando eventi di diffusione per promuovere la cultura del miglioramento continuo e della sostenibilità, La DG XII ha pubblicato un invito a presentare proposte per il programma di lavoro della Commissione europea nel settore dell'istruzione. Attualmente è responsabile del primo laboratorio pubblico interuniversitario in Puglia per supportare le aziende nella conversione della produzione. È autore principale di oltre 200 opere scientifiche (<https://iris.poliba.it/>). Titolare di due brevetti depositati sul riciclaggio dei rifiuti elettronici e edifici innovativi sostenibili. Fa anche parte dei comitati scientifici di varie conferenze internazionali. Membro del comitato di redazione della "Enciclopedia dei materiali intelligenti". Fondatore del polo italiano di INTEROP-VLab.It (<http://www.interop-vlab.eu/>). Membro ordinario del comitato tecnico IFAC5.3 "Interoperabilità e rete aziendale" e dell'associazione ENBIS.

PAROLE CHIAVE: processi di produzione; produzione sostenibile; gestione del ciclo di vita dei prodotti; eco-sostenibilità; ingegneria industriale e manifatturiera; miglioramento continuo dei processi di produzione; sistemi di produzione distribuiti e delocalizzati; gestione della qualità; fonti rinnovabili; sistemi di esecuzione della produzione; sistemi cibernetici; i materiali intelligenti, la loro fabbricazione e le applicazioni.

Settori di competenza ERC: PE8 (Ingegneria dei prodotti e dei processi) - PE8\_7 (Ingegneria meccanica e della fabbricazione (modellatura, montaggio, giunzione, separazione)); PE8\_9 (Tecnologia di produzione, ingegneria dei processi); PE8\_11 (Progettazione sostenibile (per il riciclaggio, l'ambiente, l'eco-design)).

# **Short Curriculum Vitae**

## **Michele Dassisti**

Full professor of "Systems and Production Technologies" at Polytechnic University of Bari, has significant academic and industrial research experience since 1988, nurtured along several national and international research cooperation with multidisciplinary groups. Research topics range specific subject area of "Industrial and Manufacturing Engineering". In recent years, he successfully managed to implement projects for continuous improvement of industrial processes within 20 Italian and international companies. Local scientific coordinator of national research funded projects (PRIN, PON, PAC) as well as international projects (EU STRIDE; ESPRIT-FP5; LEONARDO-FP5; INTEROP-FP6 ADAPT; INTERREG-FP6; GALILEO FP7; PICS CNRS). Significant activity within the public engagement by organising dissemination events to promote the culture of continuous improvement and sustainability, running a large number of projects financed by private industrial partners. He is currently responsible for the first public inter-university laboratory in Puglia to support companies in the conversion of production. He is main author of over 200 scientific works (<https://iris.poliba.it/>). Holder of two patents deposited on the recycling of electronic waste and sustainable innovative buildings. It is also on the scientific committees of several international conferences. Member of the editorial board of the "Encyclopaedia of Smart Materials". Founder of the Italian Pole of INTEROP-VLab.It (<http://www.interop-vlab.eu/>). Regular member of the Technical Committee IFAC5.3 "Interoperability and enterprise network" and ENBIS association.

INTEREST KEY-WORDS: manufacturing processes; sustainable manufacturing; product life-cycle management; eco-sustainability; Industrial and Manufacturing Engineering; continuous improvement of manufacturing processes; distributed and delocalized production systems; quality management; renewable sources; Manufacturing Execution Systems; Cyber Physical Systems; the smart materials and their manufacturing and applications.

ERC Sectors of competence: PE8 (Product and Process Engineering) – PE8\_7 (Mechanical and manufacturing engineering (shaping, mounting, joining, separation)); PE8\_9 (Production technology, process engineering); PE8\_11 (Sustainable design (for recycling, for environment, eco-design)).

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# Curriculum Vitae

<p><i>Personal Information</i></p>  <p style="text-align: center;">Michele DASSISTI</p>	<p>Name: <b>Michele</b>          FAMILY NAME: <b>DASSISTI</b>          Nationality : <b>Italian</b>          Office address: <b>Polytechnic University of Bari – Dipartimento di Meccanica, Management e Matematica, Via Orabona 4 – 70125 BARI, Italy (EU)</b>          Mobile: <b>+39 329 650 6022</b>          tel. <b>+39 080–596.2503</b> (segr. tel.),          E_mail: <a href="mailto:michele.dassisti@poliba.it">michele.dassisti@poliba.it</a>          PEC: <a href="mailto:michele.dassisti4126@pec.ordingbari.it">michele.dassisti4126@pec.ordingbari.it</a>          URL:  <a href="http://www.dmmm.poliba.it/index.php/it/profile/114-michele-dassisti">http://www.dmmm.poliba.it/index.php/it/profile/114-michele-dassisti</a>          skype: <b>m.dassisti</b>          Scopus Author ID: <b>55908422600</b>          Web of Science Author ID: <b>I-2668-2012</b>          H index (2024) <b>23</b>          ORCID: <a href="http://orcid.org/0000-0001-6984-9203">http://orcid.org/0000-0001-6984-9203</a></p>
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### Work Experience

- (2019 –) Permanent Full professor at Polytechnic University of Bari.
- (2001–2019) Associate professor at Polytechnic University of Bari.
- (1995–2001) Assistant Professor at the Polytechnic University of Bari.
- (1991–1995) Researcher Fellow at University of Bari.

### Personal skills: Training

- (2014) Qualified as full professor in the 09–B1 Italian sector "Technologies and Manufacturing Systems".
- (1987) MSc degree cum laude in Mechanical Engineering at Università degli Studi di Bari – Bari (Italy).

### Foreign language skills

#### *English*

Understanding: C1; Speaking: C1; Writing: C1; Listening: C1; Reading: C1

#### *French*

Understanding: C2; Speaking: B2; Writing: B3; Listening: C1; Reading: C1

### Digital skill

Information management: Minitab, Ansys, AUTOCAD; pro–E; R–language); DISCRETE EVENT SIMULATOR (ARENA; EM–Plant; Star–Logo), FEM (Ansys) ENTERPRISE MODELLING (Moogo; Aris; Mega; UML, SYSML); LCA (Simapro, Open–LCA)  
Communication: excellent (skype, social)  
Contents creation: excellent (Microsoft Office)  
Safety: standard  
Problem solving: average

### Organisational and managerial competences: Institutional service activities

- (2023 – ) Coordinator of a Workgroup **Italian University Network for Sustainable Development (RUS) named “University for Industry”**
- (2022 – ) Member of the Disciplinary Bard at Politechnic University of Bari
- (2020–2021) Member of the RIAPRO task force for the COVID–19 pandemic emergency (<http://www.poliba.it/it/ateneo/riapro-riconversione-aziendale-la-produzione-di-dpi>)
- (2019–) Polytechnic University of Bari - Rector’s delegate for Sustainability
- (2015–) Polytechnic University of Bari - Rector’s delegate for Italian Universities Network for Sustainable Development (RUS - <https://reterus.it/>)
- (2016–2019) Polytechnic University of Bari - Rector’s delegate for Continuous Improvement of Quality and Sustainability
- (2014–2016) Polytechnic University of Bari - Rector’s delegate for the strategic project for “Continuous Improvement of Quality and Sustainability”.
- (2012–2014) Designated member of the Faculty Quality Board.
- (2002–2010) Head of Central Quality–Assurance Unit.
- (1991–2002) Other official roles: elected president of the Scientific Committee of the 1st Engineering Faculty Library; elected coordinator of the Section “Technologies, Systems and Economics” of the Department DMMM; elected representative of the associate professors of the Department DMMM; elected representative of the researchers in the Board of the Department DPPI.

### **Organisational and management skill: Research**

- (2016 – ) President of the scientific committee of a private research organization INRESLAB (<http://www.inreslab.org/it/inreslab/> ).
- (2012–2016) Scientific mentor for the start–up and organization private research organization INRESLAB ( <http://www.inreslab.org/it/inreslab/> ).
- (2011) Organizer of the private networked–lab HYRENS amongst SME’s for the research and pre–industrialization of hybrid systems for the production of energy from renewable sources.
- (2004 –2014) Charter of the Italian Pole of INTEROP–VLab – European Virtual Laboratory for Interoperability of Enterprise and Business – within the VIth framework program of European Community (<http://www.interop-vlab.eu/> ).
- (1991 – ) Active member of national (AITEM <http://www.aitem.org>) and international research associations (IFAC TC5.3, ENBIS).

### **Professional skills**

- (2017) System Expert of Quality–assurance in higher education enrolled at ANVUR (National Agency for Evaluation of the University System and Research)
- (2006–2010) Responsible of the design and implementation of the Quality Management System for the third mission activities at the Polytechnical University of Bari.
- (2002 – 2004) System–expert assessor for the Conference of Italian University Rectors in CAMPUS and CAMPUS–ONE projects for the accreditation of the higher–education quality system.
- (2003) TQM assessor for the Italian Association of Culture of Quality.
- (2003 – ) Credited Auditor SA8000 by CISE Forlì–Cesena.
- (1992 – 1995) Expert engineer for mechanical testing and materials qualification.
- (1988 – ) Qualification as Professional Engineer in Bari.

### **National and International Didactical activities: Academic Teaching**

- (2006 – ) Tutorship of 30 PhD students, of which 4 in co–tutorship with the Université de la Lorraine and 2 with the Dublin City University.
- (2024 – ) Held the “Continuous Improvement of Sustainable Processes Labs of 6 ECTS/year as main didactical teaching duty in the MSc Course of Management Engineering at the Polytechnical School of Bari
- (2024 – ) Held the “Sustainability of Manufacturing Processes and Technologies” class of 6 ECTS/year as main didactical teaching duty in the MSc Course of Management Engineering at the Polytechnical School of Bari
- (2015; 2023) Experimental Statistics class for the Doctoral School of the Polytechnical School of Bari (da 3 ECTS)
- (2013 – 2022) Held the “Continuous Improvement of Sustainable Processes Class of 12 ECTS/year as main didactical teaching duty in the MSc Course of Management Engineering at the Polytechnical School of Bari
- (2012 – ) In charge and then responsible of the 6 ECTS / year Quality Module of Production Processes (Management Engineering) at the Polytechnical School of Bari
- (2010–2015) Lecturer in thematic seminars held at PhD students of the Dublin City University
- (2012) Lecturer for the courses of the innovation week at T.E.I. of Patras in a program sponsored by E.S.F. of the European Union and financed by Ministry of Education in Greece.
- (2008 – 2018) Lecturer in thematic seminars held at PhD students of the University of Nancy and then Université de la Lorraine
- (1995 – 2012) He was awarded the university courses of Industrial Quality Management, Mechanical Technology, Material Technology, Integrated Production Systems, with an average of 18 ECTS / Year at the Polytechnical School of Bari

- (2009 – 2018) Organizes and is scientific manager of the 1st level University Master in "Continuous Improvement of Processes, Products and Services" (also INPDAP Certificated) up to its fourth edition at the Polytechnical School of Bari
- (2003 – 2004) Member of the scientific committee of the Master in "Integrated Systems of Quality, Safety and Environment Management" organized by the Roman Institute of Entrepreneurial Training and the Bureau Veritas group.
- (2004 – 2008) Member of the scientific committee of the development company Apulia – On.lus company . of Bari for professional training.
- (1990 – 1995) He held thematic seminars in the courses of Material Technology, Mechanical Technology and Quality of Production Processes at the Polytechnical School of Bari
- (1991 – ) Tutor of about 2000 MSc and BSc theses. A thesis won the UCIMU 2010 competition.

**Didactical skills: Professional Teaching activity**

(1988 – ) Held several seminars (3 ECTS) and classes (6 ECTS) for several industrial and professional personnel (managers, executives, operators specialist) on following topics: materials, welding processes, experimental design in industrial innovation processes; sustainable manufacturing; continuous process improvement; statistical techniques for quality control; manufacturing process optimization; statistical tools for engineers and researchers; production technologies; design of experiments; techniques of statistical process control; technological and mechanical testing of metallic materials; metrology workshop; technical CAD/CAM; design and manufacturing of products; ontologies for interoperability.

**Didactical skills: services of promotion of culture and continuous learning**

***International (scientific responsibility):***

- (2019) Cooperation in the CEMRA E4SPA: E-LEARNING COURSE FOR SUSTAINABLE PRODUCTION AUTOMATION Call for IEEE RAS-Funded Project Proposals on Creation of Educational Material in Robotics and Automation (CEMRA Projects)
- (2004) ADAPT "Best Practice in training for SME" funded by the European Community and Italian ministry of Public Work.
- (1999) LEONARDO-FP5 "Total Quality on-line European Automotive Suppliers Quality Development Network" n. EUR/98/2/05029/PI/II.1.1.c/CONT.

***National (scientific responsibility)***

- (2013) Operational Responsible for the ID 531 MERCURIO Teaching Project "Messengers of Knowledge", for exploring new teaching methods financed by D.D. Italian Ministry of Education (MIUR) n.346 of 26.2.2013
- (2005–2008) Member appointed by the Rector of the Polytechnic of Bari for the project "Development of a guidance network for the dissemination of information to non-resident students in the university" together with the University of Bari, funded by the Ministry of Education, University and Research in the Programming of the University System 2004/06 with Decree 149 of 3/9/2003.
- (2005 – 2008) Member appointed by the Rector of the University of Bari as part of the project "Evaluation of the guidance and tutoring activities of the universities: development and validation of a model", funded by the Ministry of Education, University and Research in the

- Program of the University System 2004/06 with Decree 149 of 3/9/2003 for the "Strengthening of guidance activities and tutoring and supplementary training" – Theme 07.
- (2006 – 2009) Scientific coordinator of the "outcoming orientation (ORU)", initiative n.4 "Scientific orienteering the future" within the ARIANNA project of the Bari Polytechnic, funded by the Ministry of Education, University and of the Research with the Measure III.5 of the National Operative Program 2000–2006 – ASSE III – Development of the human capital of excellence with primary objective the valorisation of the graduate in Engineering of the Polytechnic University of Bari.
- (2006 – 2009) Member of the Project Coordination Committee and Scientific Responsible of the Action – (Prof\_Futuro) Mapping of emerging professional profiles with a strong impact on local production systems, within the SIRIO CUP J72C07000030005 project of the Polytechnic of Bari in collaboration with the University of Bari, funded by the Ministry of Education, University and Research with Measure PON 2000/2006, III.5 – Adaptation of the system of vocational training, education and higher education – NOTICE n. 2269/2005.
- (2007 – 2014) Scientific responsible of the multidisciplinary didactical project VELANTE (later SESTANTE), for the "Design, engineering and innovative sustainable means of transport made with traditional and innovative materials".
- (2001 – 2004) Scientific responsible of several national projects for orienteering POLI–ORIENTA, ARIANNA and SIRIO CUP J72C07000030005 (PON 2000–2006–Misura III.5).

### *Didactical Services*

- (2021–) University Referent of Politechnic University of Bari in the of PhD school in Sustainable Development and Climate change (PhD SDC)
- (2014; 2016; 2019) Member of the board of examiners of the doctorate Center deMDPI Recherche en Automatique de Nancy – UMR 7039 – Université de la Lorraine CNRS.
- (2010) Member of the PhD Committee in Production Systems Engineering at the Politecnico di Torino.
- (2010) External Member of the "Production Systems" Judging Commission for the final exams Ph.D. in "Systems Engineering for Industrial Production" (XXII Cycle) of the Polytechnic University of Bari.
- (2008) Invited external–member of the Dublin City University research doctorate.
- (2007; 2015) Member of the examining committee of the PhD in Advanced Production Systems at the Polytechnic University of Bari.

### *Research and Innovation: project assessment*

### **INTERNATIONAL**

- (2016 –) Expert assessor of the Government agency of National Science Centre Polacca (Narodowe Centrum Nauki – NCN; <http://www.ncn.gov.pl>)
- (2015 –) Member of “Jury of internationally acclaimed specialists” della action "Laboratories of Excellence" (Labex) of the Agencie National Fracaise de la Recherche (<http://www.agence-nationale-recherche.fr/>)

### **NATIONAL**



- (2015–) Assessor of several strategic research and innovation projects of the S3 framework on behalf of the Emilia–Romagna, Friuli–Venezia Giulia and Campania Regions.
- (2015–) Enrolled in the REPRISE (Register of Expert Peer Reviewers for Italian Scientific Evaluation).
- (2013–2015) Evaluator of international projects for the Factory of Future.
- (2009) Enrolled in the national research assessment register of the Research Evaluation Guidance Committee (CIVR).
- (2008) Enrolled as an expert in the evaluation of research projects, pre–competitive development and technology transfer published by the Agency of the Puglia Region ARTI for the profile "09 – Industrial and Information Engineering".
- (2000 –2010) Evaluator of numerous projects on behalf of the Italian Ministry of Economical Development for projects PON.
- (2002–) Expert accredited according to the decree n.1176 of 2.8.2002 – Register of the University and Research (MIUR), art. 7, c.1, of the D.L.27.7.1999 / 297 of the Ministry of Education.
- (2000) Expert assessor of several regional research–projects on behalf of the Apulia Region.

### *Research and Innovation: research activity*

#### *Research & Innovation: Management of high internationally qualified research bodies or institutes*

- (2016 – ) President of the Technical Scientific Committee of the private research organization INRESLAB (<http://www.inreslab.org/it/inreslab/>)
- (2012 – 2016) Scientific mentor of the INRESLAB private research organization (<http://www.inreslab.org/it/inreslab/>).
- (2004 – 2014) Founder and president of the Italian center of INTEROP – VLab.It (Virtual Laboratories for Interoperability), within INTEROP – VLab – European Virtual Laboratory for Interoperability of Enterprise and Business, an innovative reality born from one of the most large networks of INTEROP excellence financed under the European Community's Sixth Framework Program.

### *Research and Innovation: scientific responsibility of research projects funded upon peer-reviewed competitions*

#### *INTERNATIONAL PROJECTS (scientific responsibility)*

- (2016–2017) EU project call for BEinCPPS IT Application Experiments – Grant agreement number: 680633 subject “E3ARM: Experimentation of Energy Efficiency Algorithms in a Real Manufacturing context”.
- (2013) PICS CNRS n°6361/195098 "Interoperability assessment for production systems sustainability”.
- (2012) Galileo n. 25974QF “Interopérabilité centrée sur le produit pour l'intégration de systèmes en production manufacturière eco–durable”.
- (2005–2008) Interreg III A Italia Albania 2000/2006 – Line III – Measure 3.2 action 2
- (2003) FP6–contract n° 508011 INTEROP – Interoperability Research for Networked Enterprises Applications and Software.
- (1999) EP 28974 “TQM–on line”; (2003) FP6–contract n° 508011 INTEROP – Interoperability Research for Networked Enterprises Applications and Software.

#### *NATIONAL PROJECTS (scientific responsibility)*

- (2019 –2021) Project "SUSTAINABLE DEMANUFACTURING PROCESS FOR PHOTOVOLTAIC PANELS (SUD–PVP)" – Ministry of the Environment and the Protection of the Territory and the Sea – RAEE Call – (www.minambiente.it) – General Directorate for Waste and pollution
- (2014–2016) Scientific project "VirtualMurgia – Intelligent Multisensory System Ubiquitous for the Promotion of Culture and Traditions of the Murgia Zone" X \ PAC02L2\_00228 – MIUR notice n.436 / R IC of 13 MARCH 2013 – intervention line "RESEARCH AND INNOVATION"– ACTION" INTERVENTIONS FOR START–UP INNOVATIVE "– line 2" INCREASED IMPACT CULTURE ".
- (2013–2016) ILO Lab–ZERO "Zero Emission Research Option" – Public networks of laboratories cod. ident. 55 – CUP D98B13000140009 – Cryogenic working section and sustainability.

*Research and Innovation: member of international and national research projects funded upon peer-reviewed competitions*

**INTERNATIONAL PROJECTS (research member)**

- (2014) Member in the project GIFT 2.0 “Smart ways” – PO Grecia – Italia 2007/2013.GIFT 2.0.
- (2001) IMS PROJECT “Modelling and Simulation Environments for Design, Planning and Operation of Globally Distributed Enterprises” DGIII – IT programme

**NATIONAL PROJECTS**

- (2019) PON "Research and Innovation" and FSC – ARS 01\_00849– EXTREME "INNOVATIVE TECHNOLOGIES FOR EXTREMELY EFFICIENT SPARK IGNITED ENGINES";
- (2019 –) WP Rensponsible–project “Soluzioni Innovative per la qualità e la sostenibilità dei processi di ADDitive manufacturing (SI.ADD)” Innovative solutions for quality and sustainability of additive manufacturing processes –Specialisation area: same factory
- (2016) Project “Energy router for electrical distribution network and storage in smart nano grid” code HX8HXI1 Apulia region.
- (2014 — 2016) MISE “Green Community Efficiency Systems (GCESYS)” on study of domotic systems to support implementation plan for electrical use reduction B01/0768/03/X24
- (2013) PON FIT842013 “Sviluppo di un Sistema di Rilevazione della Risonanza (SS–RR)” Development of a Resonance system Prog. N. B01/0660/02/X17 (MIUR).
- (2007) National Project QUASAR for certification of small artisan enterprises as quality responsible at CISQ– Polytechnical University of Bari
- (2006) SISMA “S.I.S.M.A. Strutture Innovative e Sperimentazione di Materiali Avanzati” Innovative structures and advanced material experimentation (Regione Puglia, MEF, MIUR).
- (2002) National Strategic Project PRIN “Qualit– nelle misure in produzione effettuate con macchine di misura a coordinate” Quality in production measurments using coordinate measuring machiens prot. 2002091159\_002 (MIUR) – resp. Prof. R. Levi.
- (2000) National Strategic Project PRIN “Analisi Delle Tecniche di Giunzione Laser Di Leghe Di Alluminio” Analysis of Laser joining techniques for aluminum alloys prot. MM09325577\_003 (MIUR) .
- (1991; 1995; 1998) National project MURST 60% on traditional manufacturing technologies.
- (1998) PRIN prot.9809328133\_008 (MURST)
- (1997;1999;2001;2003) Local research funds of Manufacturing systems nd technologies (ex MURST 40).
- (1994) ENEA project “Reingegnerizzazione di processi di lavorazione di componenti meccanici mediante laser e fascio elettronico: il caso EBW” Reengineering of manufacturing processes

for mechanical components production using laser and electron beam weldings act. UE STRIDE CETMA cod L4.C13.

(1991) CNR MSTA – Composite materials – Theme 2.3.1.

### **PRIVATE FINANCING**

(2017–2019) Master s.r.l. (Conversano) TECHNOLOGICAL MODELS FOR MANUFACTURING SUSTAINABILITY IN THE FIELD I4.0": € 72,000.00.

(2012) HORUS Group S.r.l. : € 60,000.00.

(2009) Bosch TDIT (Bari) Optimization of the cutting tool management system: € 125,000.00.

(2012) ILVA SpA (Taranto) "Statistical process control systems": € 60,000.00.

(2004 –2007) Municipality of Barletta Design of an interoperable quality management system ": 40Mlit.

(1997) Colli Drill (Rome) "Optimization of the process of friction welding for large pipes": 30 Mlit.

(1992 – 2023) Italsider, Ilva ed ArcelorMittal; Acciaierie d'Italia: production qualification of structural steels based on the Italian norm D.M. 17 gennaio 2018 (suppl. ord. N.42 della G.U. Serie Generale del 20.02.2018) and antecedent.

### **CO-FINANCING**

(2012) TURI Group s.r.l. (Modugno) € 45,000.00.

(2016) AVIO Additive manufacturing for repair of aeronautic components (research group member)

**CO-FINANCING IN KIND (collaboration for research experimentation by common interest):**

(1988 – ) Bosch I.C.V.it (Modugno). Masmec (Bari). MBL (Corato). Horus LTD (Fasano). Dyrectlab (Conversano). Duferco Italia Holding S.p.A . GEDI Costruzioni Srl (Altamura). Marmotek (Foggia). Getrag (Bari). Fantini (Lucera and Terlizzi). Fiat IVECO (Foggia), Alenia (Foggia). Natuzzi (Santeramo). Cofra (Barletta). Om-Pimespo (Bari). Procter & Gamble (Campobasso), SIEMENS (Pisa), FAS s.r.l. (Corato). Buzzi-Unicem (Barletta). I.C.M.E.A. s.n.c. (Corato), Natuzzi (Santeramo). Lenovis (Milan). SACHIM (Alberobello).

### **Research and Innovation: patents**

#### **PATENTS**

(2013) DASSISTI "Cryogenic thermal–mechanical delamination process controlled for the complete recovery of mono or poly–crystalline or amorphous materials coated with plastic materials (DE-CRYO)" (Patent: R-BR-I-309/13/020 Int. Bureau of WIPO) [<https://iris.poliba.it/handle/11589/24598>].

(2013) MONTALBANO R, CHIARANTONI C, PICCININNI F, DASSISTI M (2013) Self-supporting modular structural element (NEXUS). PCT / IB20137000830, Polytechnic University of Bari.

**Research & Innovation: Assignment of official teaching or research (fellowship) positions at universities and research institutes, foreign and international, of high qualification**

- (1988) Six months as visiting fellowship at the University of Minnesota – Minneapolis c / o prof. S. Ramalingham as a scholarship winner.
- (2000) Invited teacher for training on manufacturing technologies at the Polytechnic University of Tirana
- (2010–2017) Periods as visiting professor for joint research at the Univerité de Nancy (now Université de La Lorreine).
- (2010 –2015) Periods as visiting professor for joint research at the University of Dublin.
- (2015–2017) Periods as visiting professor for joint research at the University of West of Scotland.

**Research & Innovation: awards and acknowledgments**

- (2023) Invited as keynote speaker on " I Resilience and Smart Sustainable Manufacturing Within the Human-centric paradigm" 4th international conference on innovative intelligent industrial production and logistics (IN4PL 2023) in Rome – Italy
- (2023) Invited as keynote speaker on " Is “smartness” sustainable? Open issues on the Smart Sustainable Manufacturing paradigm” International COnference on Prognostics and System Health Management (ICPHM 2023) in Hangzhou, China
- (2019) Invited as keynote speaker on the subject of Advances in MRF, Technologies and applications at the 6th International Conference on Material Science & Smart Materials (MSSM2019), July 24–26, Aston University, Brimingham
- (2009) Invited as keynote speaker on ”Sustainable Manufacturing” at the 3rd International Conference on Sustainable Energy & Environmental Protection, Dublin.
- (2003) Best paper award of the Society for Modeling and Simulation International, Erlangen for a scientific paper presented at the Internationale Konferenz Simulation und Visualisierung in 2003 in Magdeburg.

**Expert Consultancy**

Invited as an expert consultant for the design of international projects:

- (2010) NIST project award # 70NANB14H042 –prof. I.S. Jawahir of University of Kentucky/UK–ISM.
- (2003) IST–34229 – Key Action II (CIMOSA / UEML) coordinated by Prof. Guy Dougmenigts Graisoft – Parc d’activité FAVARD

**Research & Innovation: international teaching or research fellowships or cooperation activities at qualified research institutes**

- (2010–2017) Several periods as visiting professor for joint research at the Université de Nancy (present Université de La Lorreine)
- (2010 –2015) Several periods as a visiting professor for joint research at the University of Dublin
- (2015–2017) Several periods as visiting professor for joint research at the University of West of Scotland
- (2000) Invited researcher for training on manufacturing technologies at the Polythecnic University of Tirana
- (1988) Six months as visiting fellowship University of Minnesota – Minneapolis c/o prof. S. Ramalingham as scholarship winner.

**Research & Innovation: Direction of relevant journals, editorial initiatives, encyclopedia or summae**

- (2023) Editor for MDPI Processes Special Issue "Advances in Green Manufacturing and Optimization"
- (2023–2025) Section Editor of "GREEN INDUSTRIAL AND BUILDING MATERIALS" ELSEVIER (in process)
- (2022) Editor for MDPI Energy Special Issue "Renewable Energy and Energy Storage Systems"
- (2021) Guest editor "Technical and Commercial Challenges of Proton-Exchange Membrane (PEM) Fuel Cells"
- (2019–2021) Member of the editorial board della "Encyclopedia of Smart Materials" ELSEVIER already published (<https://www.sciencedirect.com/referencework/9780128157336/encyclopedia-of-smart-materials>).
- (2021) Guest Editor of Special Issue "Advances in Green Manufacturing and Optimisation" for Processes -MDPI
- (2019–2020) Associate Editor of Heliyon journal – "Energy section" – ELSEVIER.
- (2019 – ) Editor MDPI – Automation
- (2019 – ) Editor MDPI – Processes
- (2019 – ) Editor MDPI – Energies
- (2009 ) Editor of "Sustainable Energy Beyond 2020: Proceedings of the 3rd International Conference on Sustainable Energy & Environmental Protection – Part 2", GLASNEVIN Pub., Dublin, ISBN 978–0–9555781–2–0

**Research & Innovation: participation to editorial committee of relevant journals, editorial series, encyclopedia**

- (2010) Editor of "Sustainable Energy Beyond 2020: Proceedings of the 3rd International Conference on Sustainable Energy & Environmental Protection – Part 2", DIMeG, Bari, ISBN: 978–0–9555781–2–0
- (2001–2003) Guest Editor of the International Journal of Automotive Technology magazine and management of the International Journal of Technology Management of the Inderscience Co.Ltd.
- (2021) Guest Editor of Special Issue "Advances in Green Manufacturing and Optimization" – "Process" Open Access Journal by MDPI

**International conference Chairman**

- (1996 –) Ninth International Working Seminar on Production Economics, IGLS / INSBRUCK (1996), (2001) Workshop on Information and Organizational Design. Brussels, Belgium. 18th ICPR 2005, in the 7th International Conference on Advanced Manufacturing Systems and Technology in Udine (Italy) and in the 7th Aitem Conference (2005). SEEP2010, EI2N 2011, SEEP2012, EI2N 2012, 14th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2012). Co-Organiser of 8th International Conference on MECHANICS AND MATERIALS IN DESIGN (Bologna), 6th International Conference on Material Science & Smart Materials (MSSM2019), Birmingham. CASE 2021 – 17th IEEE International Conference on Automation Science and Engineering (co-organiser).

**International Conference Organiser or Co-Organiser**

(1996 – ) SEEP2010 (Sustainable Energy and Environmental Protection) ; EI2N 2012 (Enterprise Integration, Interoperability and Networking workshop); KES–SDM–2023 (SDM–2023 10th International Conference on Sustainable Design and Manufacturing)

**International Conference Scientific committee:**

(2009 –) 18th ICPR 2005; INCOM2012; EI2N 2012; SEEP 2014; EI2N 2014; CIRP CMS 2015; ICIST 2016; ICETAS 2016; IESE 2016; OCS2016; EI2N 2017; Seep2009–SEEP2023; MSMM2021–2023; Global Conference on Sustainable Manufacturing (GCSM 2024)

**Journal Reviewer**

(2000 –) International Journal of Production Economics. Computers in Industry. Journal of Cleaner Production. Simulation Modeling Practice and Theory. Journal of Quality in Maintenance Engineering. JQME. Applied Energy. International Journal of Technology Management). Journal of Intelligent Manufacturing. International Journal of Production Research. Computers in Industry. Simulation Modeling Practice and Theory. Simulation Modeling Practice and Theory. Journal of Quality in Maintenance Engineering.

**Research & Innovation: service activity**

(2023) External Discussant for PhD students at the Université de Albi (soutenance HDR de Oussema Ben Amara).  
(2021) Member of the international jury for the admission to the position of Professor of the Université de Lorraine (soutenance HDR de Monsieur Lezoche).  
(2020 –) External Discussant for PhD students – Politecnico di Milano, Politecnico di Torino; Università del Salento

**Public Engagement: results obtained in terms of development, use and commercialization of patents**

(2023 –) Founder and coordinator of a Workgroup of Italian Universities Network for Sustainable Development (RUS) named "University for Industry" for changing the role of Italian Universities Creation of industrial policies and paths of harmonious growth of production companies – in terms of sustainability and the fight against climate change – to support sustainable and circular innovation of the territories, with a long–term strategic vision.  
(2019 –) Scientific Responsible of the RIAPRO task force for the COVID–19 pandemic emergency (<http://www.poliba.it/it/ateneo/riapro-riconversione-aziendale-la-produzione-di-dpi>) RI.A.PRO project. (Company REconversion for the Production of PPE), in which a group of teachers, researchers and entrepreneurs, in collaboration with the Puglia Region and with all the competent authorities, have created a real "control room" to help businesses and the Puglia Region to deal with the emergency COVID 19.  
(2019 – ) Cooperation with GLOB ECO S.R.L company for industrial deployment of the patent "Cryogenic thermal–mechanical delamination process controlled for the complete recovery of mono or poly–crystalline or amorphous materials coated with plastic materials (DE–CRYO)" (Patent: R–BR–I–309/13/020 Int. Bureau of WIPO) [<https://iris.poliba.it/handle/11589/24598>] form the prototype developed in the project "SUSTAINABLE DEMANUFACTURING PROCESS FOR PHOTOVOLTAIC PANELS (SUD–PVP) cofunded by Italian Ministry of Environment and Marine Environment protection.

### *Public Engagement: activities and initiatives*

- (2019-2022) Promoted and leading the multidisciplinary project Meta-Laboratory Sustainability @POLitechnical University of Bari born from the idea of Ecopoliba in 2015, is now aimed at the conception and testing of ideas and practices for sustainable development in order to create virtuous practices for sustainability to be then made available to civil society
- (2016 – 2023) Coordinator of the interest group SOSTENERE network (Sustainable Technology Manufacturing) of the AITEM association – (<http://www.aitem.org/>).
- (1995 –) Applied didactical activities represented a main role in disseminating scientific results to Italian companies, proposing several projects financed by private companies or in-kind, promoting the vision of "university within the enterprise", with delocalization of scientific research activities at the industrial labs, anticipating the recent formulation of industrial PhD programs.

### *PUBLIC FINANCING*

- (2020) AMaRe Puglia project, concerning the analysis of manufacturing sustainability aimed at the resilience of the Apulian Textile, Clothing and Footwear sector of the Apulian Regional Council: € 95,000
- (2020) Establishment of a laboratory for research and qualification of materials (called RI. A.PRO.–lab, from the acronym of the initiative of the Polytechnic of Bari to support the Company Conversion for the production of protective devices: 350.000€

### *Public Engagement: Service activities for the dissemination and promotion of culture and continuous training*

- Organization and participation of several national workshops and conferences aimed at promoting the dissemination of scientific culture for industrialists, professionals and young employees, as follows:
- (2015 –) Several workshops within the Italian University Network for Sustainable Development (RUS) and Alleanza Italiana per lo Sviluppo Sostenibile (ASVIS; Italian Alliance for Sustainable Development), with several institutional players (Confindustria, camera commercio)
  - (2017 – 2022) Representative of the Polytechnic University of Bari in the field of RUIAP (Italian Lifelong Learning Network) for lifelong learning in Italian universities.
  - (2016) Conference speaker on The professions in a changing world "What critical issues for the creation of value" organized by CoLAP (Coordination of Free Professional Associations)
  - (2016) Contribution to the "Degrowth conference" in Budapest on the topic "Can technologies help to reduce the physical and human degradation in transition towards a degrowth society?"
  - (2016 – 2019) Rector delegate in the Technical Comitee of the Puglia Region for the System of Validation and Certification of Competences within the Regional System of Competences (DGR2273 / 12).
  - (2015) Conference speaker "We cultivate New Energy. Small Actions save the planet ", organized prof. Cardinals, UNIBAS and the Matera Province. Miglionico (Italy).
  - (2010) Referent in the organization of the Information Day for the community of Bari on sustainability "Sustaining feeling" with funding from the province of Bari notice BA / 08/2009 – F.S.E.
  - (2008) Organizer of the thematic session on "Innovative applications of metrology for product and process innovation" at the BIMU Mediterranea exhibition in coordination with the Confindustria of Bari.
  - (2007) Speaker invited to the Seminar of CMM Club Italia – XIV edition – on the "UNI EN ISO 10360: CMM performance checks and quality control"

- (2007) Co-organizer of the 14th INTERSEC meeting of CMM Club Italia on UNI EN ISO 10360 performance checks of CMM and quality control.
- (2007) Organizer of the thematic Forum for the promotion of Information Technologies on behalf of the Municipality of Bari as part of the "Memoria è Knowledge" Project – Op.3 – "Support for Identities and Local Production Systems" – Line I: "Dissemination of knowledge in the community of citizens" funded by the fourteen municipalities of the province of Bari, and scientific director of the four workshops held there with invited speakers.
- (2004) Organization of a series of thematic lectures on "Looking to the Future" within the Poliorienta project which are part of the ORU1 Action "The Polytechnic and the Professions" of the Activity Guide on avant-garde themes in the training of the Engineer and of the architect in order to define the future scenarios for the profession of the graduate of the Polytechnic of Bari. The conferences are: "Training for business excellence" (16/02/2004). "Patenting and intellectual property" (06/05/2004). "The future of the engineer in the field of information engineering" (10/05/2004). "The future of the engineer in the industrial sector" (17/05/2004). "The future of the Building and Civil engineer" (31/05/2004).
- (2003) Scientific coordination of the official 40-hour course of the A.I.C.Q. for "TQM assessor" organized by the company Progetto Qualità- 2000 s.r.l. addressed to internal professors of the Polytechnic of Bari and external professionals.
- (1998 – 1999) Organization and teaching responsibility for a series of monothematic seminars for 800 process operators, for the start-up phase of the company GETRAG S.p.A. of Bari, on themes of "Design and manufacturing study", "Construction of cogwheels" and "Workshop metrology".

**Public Engagement: Organizational activity**

- (2022 – ) Actively participates as Member of Italian Technical Committee UNI/TC58 on "Sustainable Cities, Communities and Infrastructures"; UNI/TC57 on "Circular Economy"; Participated to norm preparation ISO/IWA39 on "Gap analysis for standardization on sustainable and human-centred societies enabled with cyber physical systems". Actively participates as Member of the CEN/TC 465 – City Resilience Development Task Group; Actively participates as Member of ISO/TC 268/SC 1 Smart community infrastructures
- (2001 – 2005) Secretary of the Italian Association for Quality Culture (AICQ) – Appulo Lucana section.
- (2001 – 2005) Member of the steering committee of the Italian Association for Quality Culture (AICQ) – Appulo-Lucana section.
- (2009) Representative of the Polytechnic University of Bari in the jury of the CERMET Prize Soc. Cons. at r.l. for degree thesis on all aspects of Quality related to all socio-economic areas.
- (2003) Evaluator of the National Quality Award Italy on behalf of the Italian Quality Award Association.

I undersigned Michele DASSISTI, aware of the penal sanctions, in the case of untruthful declarations, training or use of false deeds, referred to in Articles. 46, 47 and 76 of the Italian D.P.R. 445/2000, declare that the information contained in this curriculum correspond to the truth. Pursuant to Italian Legislative Decree no. 196 of 30/06/2003, I also declare to be informed that the personal data collected will be processed, even with ICT tools, exclusively within the procedure for which this declaration is made and that in this regard all the rights belong to the undersigned provided for in Articles 7 and 13 of the same Italian decree.

DATA 3. agosto.2024

(signed)  
