PERSONAL INFORMATION

Francesco M.Sacerdoti

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Skype fmsevo

Sex Male | Date of birth 24/03/1963 | Nationality Italian

PROFESSIONAL SECTOR

Mobile App Developer
System Design and Integrator
Hardware and Software developer
Teaching
Researcher and Scientist
Inventor and Innovator

PROFESSIONAL EXPERIENCE

2011-now   Adjunct Professor

Temple University - Philadelphia PA (USA)

- Adjunct Professor in Temple University's College of Science and Technology, Biology Department
- Professor at the course ENGR 5719/3719 "Introduction to BioEngineering"
- Professor at the course BIOE 5301 "BioSignals"

Business or sector Education

2011-now   Scientist

Sbarro Health Research Organisation - Philadelphia PA (USA)

- Research projects

Business or sector Research

2004-now   Entrepreneur - R&D responsible - Teacher - Founder

e-voluzione di F.M.Sacerdoti srl - Napoli (Italy)

- Founder of the company (company infos on: www.e-voluzione.it/en)
- Production Process Analysis and Optimisation
- Design and development of measurement & control integrated systems (more than 150)
- Design of acquisition system for CIRA PWT (Plasma Wind Tunnel)
- Designer of systems for Whirlpool (Naples plant)
- Designer of systems for Pirelli/Prysmian (Arcofelice plant)
- Designer of engine test benches and fuel automatic control for AVIO
- Designer of systems for Cofren/Wabtec
- Designer of vision system with profilometry for analysis of complex dimensions of mechanical stuff
- Design of a completely automated plant for production of wood windows
- Design and Development of 13 iOS app (on Apple Store) with use of Accelerometer, GPS, Contacts, Musics, Graphics and more
- Engineering consultant for creation of new patents or products
- Design of the new version of MCC (Mission Control Center) for next space mission of CIRA USV (Unmanned Space Vehicle). Design and development for two research project on Multimedia Applications.
- Design and development of a control centre for Museums (Exhibit control, Contents, Environment)
- Technology consultant for realisation of some Multimedia Museums
- Design and realisation of the technological part of "Comune di Napoli" stand in the International Forum of Cultures in Monterrey (Mexico)
- Realisation of a control system for Industrial Compressors
- Scientific director in a Research Center to develop new Automatic Industrial Laundry machines

- Automatic warehouses Consultant for Natuzzi SpA for the creation of a JustInTime system for Baia Mare plant (Romany).
- Consultant for Plant Simulation for a Industrial Laundry Company
- Technological Consultant for Visteon to develop a new hardware/software system for an automotive application. Design of the functional test bench
- Design of a remote acquisition system for vibrational analysis based on FPGA technology.
- Realisation of a pollution laser measurement system.
- Realisation of a space education experiment on a stratospheric balloon with Italian Space Agency
- Organizer of a course on Hacking for the state police.

Business or sector Industry

2016-2017 iOS developer teacher

Apple Developer Academy
"Federico II" University in partnership with Apple INC

- iOS development Teacher - Academy Program
- Challenge Based Learning (CBL) application and lesson preparation
- Responsible for Suor Orsola Benincasa - Foundation Program
- Watch and AppleTV courses - Academy and Partenope Foundation Program
- Examples, Libraries, Sample Projects

2015 Visiting Scientist

CERN - Geneva (Switzerland)

- LabVIEW Expert at Engineering Department
- HiRadMat Data Acquisition system for Radiation effect Experiment of Accelerator Beams (2 experiments run on the accelerator)

Business or sector Research

2012-2013 Technical Director

Forus srl - Palermo (Italy)

- Technical responsible for Seven Framework European Project "Heartways" - development of a new medical portable device

Business or sector Research

2004-2005 Technical Director

ITAG - Priolo (SR) (Italy)

- Technical Director for design and development of new automation machine for industrial laundries

1995-2004 R&D Responsible - Teacher - Co-founder

ARTS srl - Napoli (Italy)

- Research and Development group manager
- Design of the Experiment Control Center for STS-107 Space Shuttle Mission
- Design and development of industrial measurement systems for more than 50 customers on:
  - Industrial Production Monitoring
  - Control Centers for testing of complex apparatuses (Space Engines, Aerospace Engines, Electronic Cards, etc.)
  - Production organisation and Logistics
  - Complex Automation systems
  - Laboratory Automation
  - Vision Inspection Systems
- Some customers: Whirlpool, FiatAvio, Avio/ELV, Pirelli, Marconi Mobile, Trenitalia, IPM Group, Ruetgers Automotive, AMSA Milano, Centrale del latte Milano, Tecnoteam, some universities and research centres.
- Responsible of some Research Projects
- Research responsible for the Campania Region Certified Laboratory (3.17)
- Design and realisation of two exhibits in the Science Museum (Città della Scienza) in Naples.
- ISO 9000 Technical Sector responsible

Business or sector Industry

1990-1995	### Researcher

MARS (Microgravity Research Center, Alenia Group) - Napoli (Italy)

- Spacelab LMS (Life and Material Science Mission): (Technical Manager): Responsible for the complete Electronic Ground Support Equipment (EGSE) to monitor and control the eight international experiments that will flight in the next LMS mission scheduled in June 1996 (ESA Project).
- MITE-2: (Project Manager) Realisation of EGSE for experiment MITE-2 during TEXUS 32 sounding rocket mission (end of Nov 1994) (ESA Project).
- Biobox: (WP Manager) Member of the MARS team for the FOTON 10 (Biobox/Biopan) mission operation on November. Design and realisation of the complete EGSE distributed all over Europe and Russia. (ESA Project).
- Spacelab IML-2 Mission: (Technical Manager) design and realisation of the whole EGSE (Electronic Ground Support Equipment) for the experiments performed on the ESA BDPU Facility during Spacelab IML-2 mission. It has to control and monitor seven experiments with the management of the commands to be uplinked to the Shuttle. (ESA Project).
- Participation during the IML-2 mission to the BDPU Engineering team.
- Spacelab D2-Mission: (Technical Manager) design and realisation of the Man Machine Interfaces (MMI) for the monitor of the five experiments performed on the ESA AFPM Facility during the Spacelab mission D2. There was one MMI for each experiment, and one for the house-keeping data. (ESA Project). Participation during the D2 mission to the AFPM Engineering team.
- INEXMAM: realisation of the Experiment Man Machine Interface during the flight of the Sounding Rocket MASER 6 launched at Kurina (Sweden) in October (ESA Project).
- ExpRes phase II: (Project Manager) Organisation of an European Group for the harmonisation and collection of data for the European database of Microgravity Experiments. Sub-Contractors: MUSC (Germany), CADMOS (France), and DUC (The Netherlands). (ESA Project).
- Telescienza a terra. (Technical Manager) Realisation of a Telescience Test-Bed (ASI Project).
- Definition of hardware and software (with a General MMI design) to control a facility (AFPM).
- Study of an experiment on SpaceHab with University of Colorado (USA) using the Italian facility FPM (Fluid Physics Module) (NASA Project).
- Study of a Control System to obtain better microgravity conditions on an Airplane for Parabolic Flights.
- Onset of Oscillatory Marangoni Flows (D2): Computerized temperature control system for MARS Micro-Floating Zone. Definition of a Control Work Station to remotely perform experiments (ASI Project).
- ExpRes (Project Manager): to study and to realise a European database of Microgravity Experiments with MUSC of Köln. (ESA Project)
- MAXUS. Technical realisation of the Telescience communication links (ESA Project)
- E1. Preparation of reports related to Computer Science (ESA Project).
- GARR. Study of connection of MARS to the GARR network (Italian Research Network).
- SIRS (Italian Space Network) (WP Manager) Realisation of an Italian Network for Space Research (ASI Project).
- Microgravity Expert System Study of Expert System Technology to be applied to Microgravity Environment and realisation of prototypes (ASI project)
- Study of application of parallel computational model to realise some Artificial Intelligence Systems (with ACS-Meiko).
- AJUTOR (Project Manager) to realise a training/tutoring expert system for the familiarization of the microgravity environment with Digital company.

- Integration of the MARS Microgravity Data bank in CUIS Preparation of the Software Requirement Document (ESA Project).

Business or sector Space

1989-1990	### Technical manager, Senior Consultant, Knowledge Engineer.

Hay Management Consultant (Hay-2000) - Milano (Italy)

- Expert systems for the Italian companies ATI (Airline company), Banco di Roma (Bank), Italcable and SIP (Telecommunication companies).
- Feasibility study for the realisation of an expert system for Aeritalia (Aerospace manufactory company.
- Multimedia expert.
- Tele-maintenance of software.

Business or sector Consultancy

1987-1989   **Research and development, project organisation, teaching**

NOOS (artificial intelligence company) - Napoli - Italy

- Technical Manager in an ESPRIT Basic Research Action Project.
- Expert system design and realisation.
- Preparation of a proposal for ASI (Agenzia Spaziale Italiana) with MARS Center on the expert system application to the microgravity environment.

Business or sector Industry

1981-1993   **Research and development, project organisation**

Statistical studies

Computer Science Consultant for Industries, Hospitals, University of Naples, University of l'Aquila and some professionals.

TEACHING

2018	Advanced Architecture in LabVIEW - National Instruments
2018	ILAS - Mobile APP Teacher
2018	Teacher Training Storytelling - Atelier Digitali (3 Italian Schools)
2017	several LabVIEW Core 1, Core 2 and Core 3 - National Instruments
September-October 2017	PON Expert teacher in Teachers Training Seminars / European Project (
September-October 2017	PON Expert teacher in Teachers Training Seminars / Coding
July 2017	Excel advanced techniques
2016-2017	Apple Developer Academy, Univ. "Federico II", iOS Developer Expert Apple Foundation program, Suor Orsola Benincasa, Course responsible Apple Foundation Program, Parthenope, Watch and AppleTV Expert
2015-2016	Esperienza di docenza congiunta con l'Ausilioteca Mediterranea Onlus (allora Centro per l'Autonomia Ausilioteca Campana Onlus) con alunni BES
2015	LabVIEW Academy, Telecommunication Engineer, Univ. "Federico II"
1997-now	"Advanced LabVIEW Techniques" - several private companies
2015	"Invention techniques" - Dompè (L'Aquila)
2015	"Invention techniques" - Glaxo (Siena) Pharmaceutical
2015	"Patents and Inventive Techniques" - Training course for Innovative Startup Experts - ODCEC
2013	"Introduction to BioEngineering: Biosensors" - ENGR 5719/3719 - Temple University - Philadelphia
2012	"System Engineering: Invention techniques" - Stoà - for CIRA
2012	"Program Managers: Invention techniques" - Stoà - for CIRA
2012	"Introduction to BioEngineering: Biosignals" - ENGR 5719/3719 - Temple University - Philadelphia
2010	"Project innovation management" - ENEA/Formit
2010	"Patents and IPC" - ENEA/Formit
2010	"Patents and internationalisation" - Advanced Course on Internationalisation - ODCEC Napoli
2008	"Industrial research project organisation" - IMAST/Formit
2008	"Industrial Strategies for Life Cycle of technology" - IMAST/Formit
2004	"Cyber Crimes" - Post Police - Bari
1987 - 1988	"Informatics Course"

EDUCATION AND TRAINING

18-19 June 2018	Diadem Advanced - National Instruments
December 2016	Apple Academy advanced courses by Big Nerd Ranch and Apple INC, Napoli
September 2016	Apple Academy preparation course by Big Nerd Ranch, Napoli
3-4 June 2014	Intellectual Property course, Italian Trade Agency, Napoli
5-6 June 2014	ESA Investment Readiness Programme (IRP) Lazio, Rome
22 February 2014	Digital or Nothing, Digital Vizir course on Media and Social Marketing
16 January 2014	universAAL (Universal Open Architecture and Platform for Ambient Assisted Living) training day, Barcelona (Spain)
17-18 November, 2011	Games and Creativity in Education and Training, Rome
June 2011	Innovation Transfer Consultant Course, Campania Chemical Order
15-17 May 2002	Corso ECSS Software engineering ESA ESTEC
12-14 May 1999	PSS-2000 Advanced Commercial Course
1995	Engineer government exam and licensed as a profession engineer. Enrolled as a member of the Italian Engineering Society "Ordine degli Ingegneri di Napoli" with n. 18567 - 2008
15-24 April 1991	VAX LISP - Digital, Roma
15-28 January, 1990	Hay Methodologies, Eastbourne (UK)
19-23 September 1988	VI Corso "La visione delle macchine" (Machine Vision) - Scuola Nazionale di Cibernetica e Biofisica del C.N.R. di Pisa, Pavia,
January-February 1988	Management courses - ISVOR-FIAT - Castelgandolfo, Roma- Italy
1987	Management courses as a company financed on young entrepreneurship, Roma - Italy

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1982-1988   Electronic Engineer Laurea   110 cum laude

"Federico II" University - Napoli (Italy)

- Thesis in Artificial Intelligence applied to querying relational databases

PERSONAL SKILLS

Mother tongue(s)   Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

English

Communication skills   Good communication skills and teaching capacities.

Managerial skills   Leadership: responsible for large research project. Organisation: entrepreneur for more than 18 years with the responsibility of internal and external human resources.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

Proficient use of Pages, Numbers, Keynote

Proficient use of Office packet

Computer skills	LabVIEW iOS programming (Objective-C, Swift) MacOS, AppleTV, WatchOS Programming Object Oriented Programming Industry and AppleStore mobile application development LiveCode Pascal, C & C++, Fortran, Lisp, Prolog SQL and NoSQL IDE: XCode, Eclipse Repositories and Code Control Systems: GIT, CVS OsX, Windows, Linux, iOS Apple systems programmer by 1980 (from Apple II)
Other skills	Music Playing: Classical Chamber and Orchestra Music (traverse flute) Modern (Piano, Guitar, Flute) Music Composing: Classical
Driving licence	B

ADDITIONAL INFORMATION

Certifications

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National Instruments "Certified Professional Instructor", 2016
National Instruments "Certified LabVIEW Architect", 2005
National Instruments "Certified LabVIEW Developer", 2003
ESA ECSS Software Engineering Certified, 2002
Engineer government exam, 1995

Patents

1 Vibration and Deformation measurement system based on a telemetry. (F.M.Sacerdoti) Italian Patent: IT0001369738

2 Magnetostrictive multiple tag identification system (F.M.Sacerdoti, R.Germano) Italian Patent: IT0001398170

3 Total Body Photography acquisition system (F.M.Sacerdoti, E.Bucarelli) - Italian Patent: IT0001397636

4 Hand coupling and fixing device, in particular button fixing device (M.Gemelli, F.M.Sacerdoti). International Patent: WO2013171778 (A2)

5 Didactic Projector: Autonomous system to use web educational contents in a classroom (F.M.Sacerdoti, S.Pagliara). Italian Patent: IT0001422138

6 Load identification system on electrical outlet (F.M.Sacerdoti et al.) Italian Patent: 0001426198

Patent Pendings

1 Security and Safety Module for Rack Cabinets (F.M.Sacerdoti). Patent Pending: UB2015A004120

Books

1 Sacerdoti F.M. et al. Advanced Image Analysis Techniques for Clinical Pathology, Editor and Author, Springer ISBN-13: 978-1493934676, 2016

2 Maraffi S. & Sacerdoti, F.M. (2018). Learning on Gaming. Innovative Teaching with the use of Smartphones and Digital Storytelling. Edizioni Accademiche Italiane. ISBN-13: 978-620-2-08483-3. ISBN-10: 6202084839. EAN: 9786202084833.

Publications

1 Abbruzzese F., Mele F., Sacerdoti F.M. Integrazione trasparente tra Prolog e Database Relazionale: Gestione di risorse e ottimizzazione, Italian National Congress AICA 1987, Trento, Italy, 1987.

2 Abbruzzese F., Mele F., Sacerdoti F.M. A Knowledge-Based Approach to Integration between Prolog and Relational Databases, International Conference Computational Intelligence-88, Milano, Italy. Published by the Elsevier Publisher, Holland, 1988

3 Maraffi S., Sacerdoti F.M. SISMA: un Sistema Esperto per l'interpretazione dei sismogrammi, National Congress 1th workshop: Informatica e Scienze della terra, Sarnano, Italy, 1989.

4 Sacerdoti F.M. SIT: a tool for Signal Interpretation, International Congress Modeling the Innovation: Communications, Automation and Information Systems, Roma, Italy, 1990.

Publications (cont)

5   Napolitano L.G., Sacerdoti F.M. et al. ExpRes: una banca dati di esperimenti in microgravità National Congress XI Congresso Nazionale della Associazione Italiana di Aeronautica ed Astronautica AIDAA-91, Forlì, Italy, 1991.

6   Willekens Ph., Sacerdoti F.M. et al. ExpRes: a European System to Distribute Information on Microgravity Experiments 42nd International Congress International Astronautical Federation IAF-91, Montreal, Canada, 1991. Published in Acta Astronautica vol.28, Elsevier, 1992, pages 219-226

7   Willekens Ph., Sacerdoti F.M. et al. MARS-MEC: Integration of MARS Microgravity Data bank in CUIS, Columbus VII Symposium, Ischia, Italy, 1992. Published in Space Technology, vol.12, n.1-1992.

8   De Chiara V., Sacerdoti F.M. A Compact Control Work Station to perform remote microgravity experiments: the TSWS, International Congress ELGRA (poster session), Genova, Italy, 1993

9   De Chiara V., Sacerdoti F.M. et al. Computer Control for an advanced diagnostic systems for space experimentation: Visual Integrated System. International Congress ELGRA, Genova, Italy, 1993

10   De Chiara V., Sacerdoti F.M. et al. The collection and harmonization of data for the ESA Experiment Database ExpRes International Congress ELGRA (poster session), Genova, Italy, 1993

11   De Chiara V., Sacerdoti F.M. et al. The Microgravity Experiment Database: an important tool for experiment design and evaluation International Symposium on Microgravity Science and Applications, Beijing, China, 1993. Microgravity Quarterly, n.76, 1993, published 1994, pages 1637-1648

12   De Chiara V., Sacerdoti F.M. et al. ExpRes, the European data base of microgravity experiments- State of the art and future developments. XII Congresso Nazionale AIDAA, Como, Italy, 1993

13   De Chiara V., Sacerdoti F.M. et al. In-depth Concept and Advancement of European Flight Experiment Databases for the Science Community utilizing Microgravity. 44th International Congress International Astronautical Federation IAF-93 (IAF-93-J.2.275), Graz, Austria, 1993

14   Castagnolo D., Sacerdoti F.M., et al. User Support to AFPM Fluid Science Experiments during the D2-Mission, 44th International Congress International Astronautical Federation IAF-93, Graz, Austria, 1993. Published on Acta Astronautica, Volume 34, October 1994, Pages 223-232

15   Duwe H., Sacerdoti F.M., et al. The ESA Microgravity Data Base (MGDB) - An inventory of Flight Experiment Results, International Symposium on Spacelab D-2 Mission, Norderney, Germany, 1994

16   Pletser V., Sacerdoti F.M. et al. Operation of the Advanced Fluid Physics Module during the Spacelab D-2 Mission, International Symposium on Spacelab D-2 Mission, Norderney, Germany, 1994. Published in Scientific Results or the German Spacelab Mission D-2, P.R. Sahm, M.H. Keller and B. Schiewe eds.,WPF-DLR Köln, ISBN 3-891000-025-1, 775-786, 1995

17   Sacerdoti F.M., Esposito G., et.al. The Man Machine Interfaces developed for the AFPM experiments in the D2 mission. International Symposium on Spacelab D-2 mission, Norderney, Germany, 1994. Published in Scientific Results or the German Spacelab Mission D-2, P.R. Sahm, M.H. Keller and B. Schiewe eds.,WPF-DLR Köln, ISBN 3-891000-025-1, pages 787-794, 1995

18   Sacerdoti F.M. The Scientific Interface developed for the MITE-2 experiment on Texus 32 sounding rocket mission, 12th ESA Symposium on European Rocket and Balloon Programmes and Related Research, Lillehammer, Norway, 1995

19   Fortezza R., Sacerdoti F.M. The Scientific Ground Support Equipment for a multiuser facility- The BDPU experience, IAF International Astronautical Congress, 46 th, Oslo, Norway, 1995

20   Sacerdoti F.M., Medusa G., Vivo E. MultiClient: sistema remotizzato per banchi di collaudo, NI-Days Europe 1999 conference on Virtual Instrumentation, Roma, 1999

21   Sacerdoti F.M., HVCU: Un sistema di imaging per il controllo automatico di indumenti ad alta visibilità, NI-Days Europe 1999 conference on Virtual Instrumentation, Roma, 1999

Publications (cont)	22	Sacerdoti F.M. , Favini G., TetraTest: banco di prova di radio mobile, NI-Days 2000-2001 Worldwide conference on Virtual Instrumentation, Roma, 2001
	23	Sacerdoti F.M BOSW: a software to monitor and control a Biological Facility on Space Shuttle Mission STS-107, NI-Days 2001-2002 Worldwide conference on Virtual Instrumentation, Roma, 2002
	24	Sammarco M., Garonna O., Sacerdoti F.M TestInAText: Easy Programmable Functional Test and Image Analysis, NI-Days 2001-2002 Worldwide conference on Virtual Instrumentation, Roma, 2002
	25	Sacerdoti F.M., Papi M. A system to visually monitor pantographs, NI-Days 2002-2003 Worldwide conference on Virtual Instrumentation, Roma, 2003
	26	Sacerdoti F.M., Space Station Operations: a Space Shuttle Mission Lesson Learned, 54th International Congress International Astronautical Federation (IAC-03-P.5./T.5.02) IAF-03, Bremen, 2003
	27	Sacerdoti F.M.,Di Micco R. et al. WASHTEST: un sistema di test a norma EN-60456, NI-Days 2003-2004 Worldwide conference on Virtual Instrumentation, Roma, 2004
	28	Sacerdoti F.M.,Di Micco R. et al. La norma 60335 e la misura automatica della temperatura del motore delle lavatrici, NI-Days 2006-2007 Worldwide conference on Virtual Instrumentation
	29	Sacerdoti F.M.,F.C.Melchi. et al. Sistema automatico di rilevamento d'insorgenza di nuove lesioni cutanee di origine pigmentaria o di modificazioni morfocolorimetriche di lesioni preesistenti – Parte prima, 2007
	30	Sacerdoti F.M.,Senatore A., Tontodonato V. Sistemi automatici per il controllo della produzione di infissi di legno NI-Days 2009 Forum Tecnologico sulla progettazione grafica di sistemi
	31	Basagni R., De Soccio V., Frullone A., Sacerdoti F.M., Automatic system for testing complex mechanical dimensions of small pieces, NI-Days 2012
	32	Giordano A., Sacerdoti F.M. et al. "Campania Terra di Veleni", Chapter on Electromagnetic Fields, Libro Bianco Salute e Ambiente in Campania, Editrice "il Denaro", 2012
	33	Sacerdoti F.M. et al. "Wearable sensor for real-time monitoring of exercise routines", IFMBE International Conference On Health Informatics, 2013, Published by Springer, ISBN 9783319030050, Vilamoura (Portugal)
	34	Maraffi S., Sacerdoti F.M. et al. "GeoQuest an Interactive Role Playing game ", EGU General Assembly 2015, Geophysical Research Abstracts Vol. 17, EGU2015-14720, Wien (Austria), 2015
	35	Maraffi S., Sacerdoti F.M. "EvoRPGE an Interactive Class Role Playing engine", International Congress on Education, Innovation and Learning Technologies (ICEILT), Granada (Spain), ISBN: 978-84-944311-3-5. Edited by: ScienceKNOW Conferences C.B. September 2015, p. 148.
	36	Ercolino I., Maraffi S., Sacerdoti F.M, "Could smartphone in science teaching foster motivation and positive attitudes in students?", International Conference New Perspectives in Science Education, 2016. New Perspectives in Science Education International Conference Proceedings, ISBN 9788862927055, 127-131
	37	Ercolino I., Maraffi S., Sacerdoti F.M, "Could hands-on activities and smartphone in science CLIL teaching foster motivation and positive attitudes in students?", Geophysical Research Abstracts, Vol. 18, EGU2016-4908-2, 2016, EGU General Assembly 2016, Wien (Austria), 2016
	38	S.Maraffi, F.M.Sacerdoti, A.Scamardella, "GeoQuest VESUVIUS, a CLASS Role Playing game", 2016 STEAM/STEM Education Conference, http://www.huichawaii.org/assets/maraffi%2c-sabina(2)---2016-steam-huic.pdf, Hawaii, 2016
	39	Maraffi S., Paris E., Sacerdoti F.M. & Scamardella A., 2016. Geoquest, a Computer Class Role Playing Game. Oral presentation, 2nd European Mineralogical Conference - Rimini (Italy), September 11-15, 2016. EMC2016 Book of Abstracts: "Minerals, rocks and fluids: alphabets and words of planet Earth", pag.733.

Publications (cont)	40	Maraffi S. & Sacerdoti F.M., GeoQuest a computer classroom Role Playing Engine to teach earth science in an interdisciplinary way. 9th annual International Conference of Education, Research and Innovation. - Seville, 2016. Oral presentations.
	41	Maraffi., S. & Sacerdoti, F.M. (2016). GeoQuest Project. Computer class Role Playing Game as innovative teaching methodology to foster STEAM education. Journal of Environmental Science and Engineering, Volume 5, Number 10, 495-511.
	42	Maraffi, S., Ercolino, I. & Sacerdoti, F.M. (2017). Who killed Maya Foster? A CLIL CrimeQuest, interactive computer class Role Playing Game. European Festival Science on Stage "Inventing the Future of Science Education". Debrecen (Ungheria), July 2017
	43	Maraffi S. & Sacerdoti F.M.(2017) "Learning on Gaming with a new digital educational environment", *Digital Universities in the MOOC Era: Redesigning Higher Education.* ICEM International Conference for Educational Mobile, Napoli, September 2017
	44	Maraffi, S., Ercolino, I. & Sacerdoti, F.M. (2017). "CrimeQuest, a CLIL approach of "Learning on Gaming" to improve Science Education and Language Learning". Second edition of the International Conference "MOOCs, Language learning and Mobility", October 2017
	45	Ercolino, I, Maraffi, S. & Sacerdoti, F.M. (2017). "Who killed Maya Foster? A CLIL CrimeQuest interactive game". TESOL Italy's 42nd National Convention "Into the Future of ELT", Rome on November 17-18, 2017.
	46	Maraffi, S. & Sacerdoti, F.M. (2017). "Learning on Gaming" Improves Science Learning in a STEAM Interdisciplinary Approach. Journal of Environmental Science and Engineering A 6 (2017) 155-165 D doi:10.17265/2162-5298/2017.03.007
	47	Maraffi S., Sacerdoti F.M. & Paris E. (2017) "Learning on Gaming: A new DGBL approach to Improve Education Outcomes", US-China Education Review, Vol. 7, No. 9, 2017, 421-432
	48	Maraffi, S. & Sacerdoti, F.M. (2017). "Save Yourselves": an App to Improve Correct Behaviors in Earth Environmental Emergency. American Geophysical Union Fall Meeting, New Orleans, USA, December 2017
	49	Maraffi S. & Sacerdoti, F.M. (2018). GeoQuest Project, implementation and experimentation of a computer classroom role playing game: final results. 6th Mediterranean Interdisciplinary Forum on Social Sciences and Humanities, MIFS 2018.
	50	Maraffi S. & Sacerdoti, F.M. (2018). The App Save Yourself improves knowledge in earth environmental emergency and safe behaviors. 6th Mediterranean Interdisciplinary Forum on Social Sciences and Humanities, MIFS 2018.
	51	Maraffi S. & Sacerdoti, F.M. (2018). Innovative Digital Games to Improve Science Education through Storytelling, Mystery and Myth. British DiGRA 2018.
	52	Sacerdoti F. et al. (2018) Remote Educational Gaming: dagli Atelier Digitali ai Progetti Europei, studenti italiani e islandesi progettano avventure didattiche da giocare a distanza, Bricks, AICA, Anno 8 n.2 pag. 84-93, giugno 2018
Invited Speaking	1	Mele F., Sacerdoti F.M. Dal problema all'hardware: una metodologia di scelta dell'hardware per problemi di IA applicati, Technical Report 1/87, presented to CIRA (Italian Center for Aerospatial Research), Napoli, Italy,1987
	2	Mele F., Sacerdoti F.M. Knowledge-based Approach to the problem of Integration, Workshop on Artificial Intelligence, Catania, Italy, 1989
	3	De Chiara V., Sacerdoti F.M. Definizione dell'architettura di un apparato per il controllo e la gestione di esperimenti in modalità remota, MARS Internal Report presented to ASI (Italian Space Agency), Italy, 1992
	4	Sacerdoti F.M. The importance of Man-Machine Interface, European Space Exploration Strategy Stakeholder Workshop, Brussels, 2005
	5	Sacerdoti F.M. ECC: Space application for Space, Industrial and Environment monitoring applications – First Campania Science and Technology week at Bejiing, China, Maggio 2007
	6	Sacerdoti F.M. Usage of specific Man Machine Interfaces to control complex systems by primer users. V Forum on Technology Transfer "International Conference to create an exchange platform to transfer Methodologies and Technologies in developing countries", FAO Roma, December 2007

7   Sacerdoti F.M. New User Interfaces for fruition of Cultural Heritage, International Forum TECHA2008 Technologies Exploitation for the Cultural Heritage Advancement, Roma Marzo 2008

8   F.M.Sacerdoti & S.Maraffi., "EvoQuest, Innovazione nella formazione: giochi interattivi didattici per le classi" - in Digital Transformation, TBIZ 2015, 17-18 giugno 2015, Centro Congressi di Città della Scienza, Napoli

9   S.Maraffi. & F.M.Sacerdoti, "EvoQuest, un gioco di ruolo di classe interattivo con gli smartphone", Smartphone e tablet per l'insegnamento delle scienze, 11-12 settembre 2015, Città della Scienza, Napoli, 2015

10   S.Maraffi. & F.M.Sacerdoti, "Playing Education", XIII Edizione di Smart Education & Technology Days – 3 Giorni per la Scuola 28-30 ottobre 2015, Città della Scienza, Napoli, 2015

11   F.M.Sacerdoti. "A new educational technology", Excecutive Roundtable: Service Challenges for Business and Society, RESER 2016 Doctoral Colloquium, Naples, 9 September 2016

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13   Sacerdoti F.M., Maraffi S., Scamardella A., (2016). "GeoQuestVesuvius: Giochi di Scienza", Futuro Remoto 2016, 9/10/2016, Piazza Plebiscito, Napoli, Italy

14   Maraffi S., Pennesi D., Acqua A., Stacchiotti L. & Paris E., (2016). 'Le Scienze della Terra a Scuola: La didattica laboratoriale per sviluppare competenze', 18 ottobre 2016, Università degli Studi Roma TRE, Roma

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16   Sacerdoti, F.M. & Maraffi., S., (2016). "EvoQuest", ArcheoStartup 2016, XIX Borsa Mediterranea del Turismo Archeologico

17   Maraffi, S. & Sacerdoti, F.M., (2017). L'esperienza di EvoQuest. e-Tourism and Digital Playground, eTourism Conference. Università degli Studi Roma TRE, Roma

18   Sacerdoti, F.M. & Maraffi S. (2017). Play adventure games in a class. *Digital Universities in the MOOC Era*: Redesigning Higher Education. ICEM Conference 2017. Workshop. 20-22 settembre 2017.

Honours and awards

Participation to 4 Space Shuttle Missions with design and realisation of the Experiment Control Centres to control and monitor the facility on board during the whole mission. The systems were specialised for Scientists, Mission Specialists, Facility Specialists, and Commanding Managers.

Adjunct Professor in Temple University's College of Science and Technology, in the Department of Biology and BioEngineering

Editorial Review Board Member for "International Journal of Computer Vision and Image Processing (IJCVIP)"

Editor for the book "Advanced Image Analysis Techniques for Clinical Pathology" for Springer

Winner of the "Premio Nazionale Innovazione – StartCup Napoli" with Alert-Me a Early Warning system for Earthquakes, 2008 (http://www.rissclab.unina.it/it/eventsandnews-all/41-hl-eventi/624-start-cup-federico-ii-2008-zollo-iannaccone-sorrentino-elia-martino-festa-iervolino-lancieri-sacerd)

Euroleader award 2006, EBN Congress, Selected Candidate in Space and SatCom Navigation Sector

Winner for three consecutive years to the second prize for the best Italian Test&Measurement application by National Instruments

Head of the group of expert for the European Community in the creation of the handbook "Standardisation for Defence Procurement European Handbook" CEN WS 10 - EG 06 "Electrical interfaces" and Italian Delegate for the group EG 15 "Quality of Power Supply" (http://www.eda.europa.eu/EDSTAR/home.aspx)

Expert for evaluation of Research project on MIUR (Italian Research Ministry) Italian Ministry of University and Research Consultant for innovation in the SMEs (Dirce Project).

European Space Exploration Strategy Group stakeholder for ESA future strategies on next missions on Moon and Mars

Member of the Program Committee of ICHI2013 (IFMBE International Conference on Health Informatics)

Technical responsible for Naples Province on Aerospace and Galileo Projects.

Acknowledgements

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Cesaretti G. La politica agraria delle comunità europee, Edizioni Tellus, 1993

Monti R. et al. An experimental and Numerical analysis of thermocapillary flow of silicone oils in a micro-floating zone, 43th International Congress International Astronautical Federation IAF-92 (IAF-92-0918), Washington, 1992

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Francesco M. Sacerdoti   Napoli, 15/7/2018