Contact information

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Degrees

June 1998	Ph.D. in Telecommunication Engineering, University of Pisa. Thesis title: "Ground and sea non-Gaussian clutter: statistical analysis and adaptive radar detection". Advisors: Prof. Lucio Verrazzani and Prof. Giovanni Corsini
Oct. 1994-Oct. 1997:	Ph.D. student in Telecommunication Engineering at the DII, University of Pisa.
April 1993	Laurea degree in Electrical Engineering, University of Pisa. Thesis title: "Rivelazione di bersagli in clutter di Weibull con una rete di sensori CFAR a decisione decentrata" (Decentralized detection of radar targets embedded in Weibull clutter with a CFAR sensor network). Advisor: Prof. Lucio Verrazzani

Career

2017-Present	Full Professor, DII, University of Pisa, Pisa, Italy.
2019-2023	Visiting Professor, Xidian University, Xi'an, China.
Jan.-Feb. 2018	Invited Professor, Université Paris-Sud, CentraleSupélec, Paris Saclay, Paris, France.
May-June 2015	Invited Professor, Université Paris-Sud, CentraleSupélec, Paris Saclay, Paris, France.
Dec. 2011 – Dec. 2016	Associate Professor, DII, University of Pisa, Pisa, Italy.
April 2001 - Dec. 2011	Assistant Professor, DII, University of Pisa, Pisa, Italy.
June 1998 – March 2001	Research Assistant, DII, University of Pisa, Pisa, Italy.

Dec. 1997 – May 1998   Visiting Scholar, Georgia Tech Institute of Research, Gatech, Atlanta, GA, USA.

TEACHING

2024-present   Radar Systems (2nd year for graduate students in Telecommunication Engineering), University of Pisa, Italy, 3 ECTS

2021 - 2025   Multichannel Signal Processing (2nd year for graduate students in Telecommunication Engineering), University of Pisa, Italy, 4 ECTS.

2020 - present   Radar Fundamentals (1st year for graduate students in Telecommunication Engineering), University of Pisa, Italy, 6 ECTS.

2018 - 2020   Fundamentals of Radars (1st year for graduate students in Telecommunication Engineering), University of Pisa, Italy, 9 ECTS.

2016-present   Signal Processing Theory (2nd year for undergraduate students in Biomedical Engineering), University of Pisa, Italy, 6 ECTS.

2013 - 2018   Fundamentals of Radar Theory (1st year for graduate students in Telecommunication Engineering), University of Pisa, Italy, 3 ECTS.

2013 - 2018   Fundamentals of Digital Communication (2nd year for undergraduate students in Computer Engineering), University of Pisa, Italy, 3 ECTS.

2011 – 2013   Signals and Systems (2nd year for undergraduate students in Telecommunication Engineering), University of Pisa, Italy, 6 ECTS.

2001 - 2016   Signal Processing Theory (2nd year for undergraduate students in Aerospace Engineering), University of Pisa, Italy, 6 ECTS.

2000 - 2011   Detection and Estimation Theory (1st year for graduate students in Telecommunication Engineering), University of Pisa, Italy, 6 ECTS.

1999 – 2000   Electrical Communications (2nd year for undergraduate students in the "Diploma di Laurea" in Telecommunication Engineering), University of Pisa, Italy, 6 ECTS.

ADVISOR/TUTOR ACTIVITY

Prof. Greco is and has been also thesis advisor of many graduate and undergraduate students and advisor of a plethora of national and international PhD students and post-docs.

Maria Greco has been **opponent of the PhD defense** for University of Cape Town, South Africa (2015), University of Tromso, Sweden (2015), University of Aalto, Helsinki, Finland (2017), University of Pisa, Italy (2017 and 2025), Politecnico di Torino (2003 and 2017) and University of Lebanon (2017), TU Delft (2019), CentraleSupelec, Paris, France (2019), University of

Luxemburg (2022), Carlton University, Canada (2023), KTH, Stockholm, Sweden (2023), Indian Institute of Technology Delhi, India (2025).

HONORS/AWARDS

2025   IEEE Aerospace and Electronic Systems Society's Barry Carlton Award for 2021 Best Paper for the paper (co-authored with A. M. Ahmed, A. A. Ahmad, S. Fortunati, A. Sezgin, and F. Gini) published in the October 2021 issue of the *IEEE Transactions on Aerospace and Electronic Systems*.

2021   2019 H. Rowe Mimno Award for the best paper co-authored with S. Z. Gurbuz, A. Charlish, H.D. Griffiths, M. Rangaswamy and K. Bell, published in December 2019 on the *IEEE Aerospace and Electronic Systems Magazine*.

2019   2019 EURASIP JASP Best Paper Award for the paper co-authored with S. Fortunati, F. Gini, R. Grasso and K. LePage, published in 2014 on the *Journal of Advances in Signal Processing (JASP)*.

2018   IEEE AESS Board of Governors Exceptional Service Award for "Exemplary Service and Dedication and Professionalism as EiC of the IEEE AES Magazine".

2016   IEEE Aerospace and Electronic Systems Society's Barry Carlton Award for 2012 Best Paper for the paper (co-authored with J. Sangston, and F. Gini) published in the January 2012 issue of the *IEEE Transactions on Aerospace and Electronic Systems*.

2015   2015 Innovation Award for the project COTRAMIS, MBDA, Rome, Italy.

2015   IEEE Aerospace and Electronic Systems Society Distinguished Lecturer for the years 2015-2020.

2014   IEEE Signal Processing Society Distinguished Lecturer for the years 2014-2015.

2011   "Premio Francesco Carassa" Best Paper Award in the Remote Sensing area for the paper co-authored with P. Stinco, F. Gini and A. Farina, presented at the Annual GTTI Meeting, Taormina, July 2011.

2011   IEEE Fellow since January 2011

2008   2008 IEEE Aerospace and Electronic Systems Society's Fred Nathanson Young Engineer of the Year Award for contributions to signal processing, estimation, and detection theory.

2003   IEEE Aerospace and Electronic Systems Society's Barry Carlton Award for 2001 Best Paper for the paper (co-authored with P. Lombardo, F. Gini, A. Farina, and B. Billingsley) published in the July 2001 issue of the *IEEE Transactions on Aerospace and Electronic Systems*.

NATIONAL AND INTERNATIONAL LEADERSHIP ROLES
- Jan.26 – Present – **Past President** of IEEE AESS.

- Jan.21- Present – Member of the ***EURASIP Board of Directors***, Awards Director (2021-2024) and Finance Director (2025-2026).
- Jan.24 – Dec.25 – **President** of IEEE AESS.
- Jan.23-Dec.24 –**Chair** of the *IEEE Sensor Arrays and Multichannel Signal Processing Technical Committee (SAM- TC)*
- Jan.23-Dec.24 –**Founder Chair** of the *AESS Integrated Sensing and Communication Technical Working Group (ISAC TWG)*
- May 23-May 25 – **Chair** of the *IEEE Fourier Award Evaluation Committee*.
- June 22 – Dec.25 – **Chair** of the steering committee of *IEEE Transactions on Radar Systems*.
- Jan.21 – Dec.25 – **Editor in Chief** of *EURASIP Journal on Advances in Signal Processing*.
- Jan.18-Dec.20 – **VP Publications** for *IEEE AESS*.
- Jan. 12-Dec. 17 and Jan. 19-Dec. 24 - Member of the ***Board of Governors*** *of AES Society*.
- Sept. 15-Dec. 18 – **Founder Chair** of the EURASIP Special Area Team on Signal Processing for Multisensor Systems (*SAT-SPMuS*).
- Jan. 15- Dec. 18 - Member of the ***IEEE Fellow Evaluation committee***.
- Jan. 13-Dec. 17 - **Chair** of the *IEEE AESS Fellow Identification Committee*.
- Jan. 14-Dec. 15 - **Chair** of the *IEEE Picard Medal Award Committee.*
- June 14-July 16 - **Chair** of the *IEEE AESS Radar Systems Panel.*
- Jan. 15- Dec. 17 - Member of the ***Board of Governors*** *of SP Society*.
- **Lead guest editor** of the special issue on "*Advances in Radar Systems for Modern Civilian and Commercial Applications*", on *IEEE Signal Processing Magazine*, July/September 2019.
- **Lead guest editor** of the special issue "*Advances in Signal Processing for Radar Applications*" on *IEEE Journal of Special Topics on Signal Processing*, December 2015.
- **Lead guest editor** of the special issue "*Modelling and Processing of Radar Signals for Earth Observation*" on *International Journal of Navigation and Observation,* August 2008.
- Jan. 15-Dec. 17- **Editor in Chief** of *IEEE Aerospace and Electronic Systems Magazine.*
- **General co-Chair** of the *EUSIPCO 2024* (*Lyon, France*), August 2024.
- **General co-Chair** of the *IEEE Radar Conference 2020* (*RadarConf20, Florence, Italy*), September 2020.
- **General co-Chair** of the *IEEE International Conference on Environmental Engineering*, Milan, Italy, March 2018.
- **General co-Chair** of the *IEEE CAMSAP2011* (*San Juan, Puerto Rico*).
- **General co-Chair** of the 2007 *Waveform Diversity & Design Conference (WDD07, Pisa, Italy)*
- **Technical co-Chair** of *EUSIPCO 2027* (*Darmstadt, Germany*), September 2027.
- **Technical co-Chair** of *IEEE Radar Conference 2025* (*Krakow, Poland*), October 2025
- **Technical co-Chair** of *EUSIPCO 2025* (*Palermo, Italy*), September 2025.

- **Technical co-Chair** of *CAMSAP 2023* (*Costa Rica*), December 2023.
- **Technical co-Chair** of *EUSIPCO 2021* (*Dublin, Ireland*), August 2021.
- **Technical co-Chair** of *EUSIPCO 2019* (*A Coruna, Spain*), September 2019.
- **Technical co-Chair** of *CoSeRa 2015* (*Pisa, Italy*), June 2015.
- **Technical co-Chair** of the *2010 International Workshop on Cognitive Information Processing* (*Elba Island, Italy*)
- **Co-organizer** of the *1st EURASIP PhD School on Radar Signal Processing* (Pisa, September 2014).
- **Sole Organizer** of the *EURASIP seminar day on Radar Signal Processing, 25 Sept. 2009 (Pisa, Italy)*
- **Area Chair** of *IEEE RadarConf24* (*Denver, USA*)
- **Area Chair** of *IEEE RadarConf22* (*New York City, USA*)
- **Area Chair** of *IEEE RadarConf21* (*Atlanta, USA*)
- **Area Chair** of *EUSIPCO 2018* (*Rome, Italy*)
- **Area Chair** of *EUSIPCO 2017* (*Kos, Greece*)
- **Area Chair** of *EUSIPCO 2015* (*Nice, France*)
- **Area Chair** of *EUSIPCO 2014* (*Lisbon, Portugal*)
- **Area Chair** of *EUSIPCO 2013* (*Marrakech, Morocco*)
- **Principal Investigator** of the project *"FLARE - FLexible And distributed cognitive Radar systEms" (PI), funded by the Italian Ministry of Education (MUR).*
- **Principal Investigator** of the project "CIRCE - CommunIcations and Radar Co-Existence", (PI) PRIN 2022, *funded by MUR.*
- **Principal Investigator** of the project "COMURAS - Cognitive Multistatic Radars for Dynamical Environment Sensing", *funded by European Office of Aerospace Research and Development (EOARD).*
- **Principal Investigator** of the project "ASSPS - Advanced Sonar Signal Processing System", (PI) with DRASS, *PNRM funded by Italian Defense Ministry* (MoD).
- **Principal Investigator** of the project *"ARTS - Augmented Reality Tracking system", PNRM funded by Italian Defense Ministry, CIG Z80242DE31.*
- **Principal Investigator** of the project *"Exploiting Spatial Diversity for Massive MIMO Radars", funded by European Office of Aerospace Research and Development (EOARD).*
- **Principal Investigator** of the project *"Sistema integrato per la sicurezza di strutture sensibili" PRA 2015, funded by University of Pisa, Italy.*
- **Principal Investigator** of the project "Coherent detection of radar targets in non-Gaussian sea clutter", *funded by Navico S.r.l.,* Italy.

- **Principal Investigator** of the project LORD, "Low Speed Target Detection by Using Active Radar Homing Systems", *funded by MBDA, Rome, Italy.*

- **Principal Investigator** of the project "Waveform Diversity and Frequency Sharing Techniques for Cognitive Radar Systems", *funded by European Office of Aerospace Research and Development, grant number FA8655-13-1-3011.*

- **Principal Investigator** of the project "X-band radar detection of low RCS targets with scan-to-scan integration", *funded by Consilium Italy S.r.l., Italy*

- **Principal Investigator** of the project *"*Posterior Cramér-Rao Lower Bounds for Bistatic radar tracking*", funded by SELEX-Sistemi Integrati, Roma, Italy.*

- **Principal Investigator** of the project SPREWS*, funded by SELEX-Sistemi Integrati, Roma, Italy.*

- **Principal Investigator** of the project "Performance evaluation of WERA HF radar for ship detection"*, funded by NURC, NATO, La Spezia, Italy.*

- **Principal Investigator** of the project "Detection and tracking techniques of radar targets in presence on wind farm clutter", *funded by SELEX-Sistemi Integrati, Roma, Italy.*

- **Principal Investigator** of the project "Waveform diversity and design for interoperating radar systems", *funded by European Office of Aerospace Research and Development, grant number FA8655-07-1-3096.*

- **Principal Investigator** of the project "2D-CFAR techniques for 3D radars"*, funded by Reinmethall, Roma, Italy*

- **Director** of the Joint Research Center on "Cognitive Signal Processing" with Xidian University, Xi'an, China (2019-2023).

EXPERTISE AND GENERAL INTERESTS

Dr. Greco's professional expertise encompasses statistical signal processing, estimation and detection theory, statistical methods for data analysis, non Gaussian signal detection and estimation with applications to radar systems. She co-authored about 160 journal papers, more than 130 conference papers, 2 books and 7 book chapters.

CURRENT RESEARCH GOALS

- Detection and estimation of radar signals in non-Gaussian clutter;
- Monostatic and bistatic high resolution sea clutter analysis and modeling;
- Cognitive radars and waveform design;
- MIMO, Multistatic active and passive radar systems.
- Integrated sensing and communication

PROJECTS AND FUNDING

Since 1997 Dr. Greco participated in or led many national and international projects/grants. The main ones are listed below.

2025   "*Robust Detection in non-Gaussian Clutter*" (PI), funded by the THALES, France

2024-25   "*FLARE - FLexible And distributed cognitive Radar systEms*" (PI), PNRR, funded by the Italian Ministry of Education (MUR)

2023-25   "*COMURAS - Cognitive Multistatic Radars for Dynamical Environment Sensing*", (PI) funded by European Office of Aerospace Research and Development (EOARD).

2023-25   "*CIRCE - CommunIcations and Radar Co-Existence*", (PI) PRIN 2022, funded by MUR.

2023-24   "*ASSPS - Advanced Sonar Signal Processing System*", (PI) with DRASS, PNRM funded by Italian Defense Ministry (MoD).

2023   "*INTERCONNECT*", (participant), PRA 2023 funded by University of Pisa, Italy.

2021-25   "*OPENSENSE - Opportunistic precipitation sensing network*", funded by EU under COST framework.

2019-21   "*ARTS - Augmented Reality Tracking system*", (PI) with DRASS, PNRM funded by Italian Defense Ministry (MoD), CIG Z80242DE31.

2019-20   "*BiSS -Bistatic Sonar System*"- (Participant) with Elettronica SpA, PNRM funded by the Italian Defence Ministry (MoD). (PI A. Caiti)

2017-21   "*Exploiting Spatial Diversity for Massive MIMO Radars*", (PI) funded by European Office of Aerospace Research and Development (EOARD).

2017-19   "*Robust Hypothesis Testing for Radar Applications*", (co-PI) funded by European Office of Aerospace Research and Development (EOARD), grant number FA9550-17-1-0065.

2016   "*Knowledge – Based Radar for Target Detection and Identification – Kbaret Study,*" funded by European Defence Agency (EDA).

2015   "*Sistema integrato per la sicurezza di strutture sensibili*" PRA 2015 *(Principal Investigator),* funded by University of Pisa, Italy.

2015   *"Coherent detection of radar targets in non-Gaussian sea clutter", (Principal Investigator),* funded by Navico S.r.l., Italy.

2014   COTRAMIS, "*Cognitive Tracking Radar Architecture for RF Missile Seeker"* funded by MBDA, Rome, Italy (awarded the 2014 Innovation Award).

2014   LORD*, "Low Speed Target Detection by Using Active Radar Homing Systems" (Principal Investigator),* funded by MBDA, Rome, Italy.

2013-2015   CAESARIS, *"Cognitive Airborne multisEnsor System for Aerial Reconnaissance Intelligence and Surveillance"*, funded by FP7-SME-2013.

2013-2017   *"Waveform Diversity and Frequency Sharing Techniques for Cognitive Radar Systems", (Principal Investigator)* funded by European Office of Aerospace Research and Development (EOARD), grant number FA8655-13-1-3011.

2013   *"X-band radar detection of low RCS targets with scan-to-scan integration", (Principal Investigator),* funded by Consilium Italy S.r.l.

2012-2013   *FARADAYS, "Frequency Sharing Techniques for Future Radars"* funded by SELEX-Sistemi Integrati., Roma, Italy

2011-2012   "*Posterior Cramér-Rao Lower Bounds for Bistatic radar tracking*", (*Principal Investigator*), funded by SELEX-Sistemi Integrati., Roma, Italy

2009-2011   *Integrated sensor network for homeland security*, funded by Finmeccanica - SESM, Roma, Italy

2009-2011   *SPREWS* (*Principal Investigator*), funded by SELEX-Sistemi Integrati., Roma, Italy.

2009   *Performance evaluation of WERA HF radar for ship detection*, (*Principal Investigator*), funded by NURC, NATO, La Spezia, Italy.

2008-2009   *Detection and tracking techniques of radar targets in presence on wind farm clutter* (*Principal Investigator*), funded by SELEX-Sistemi Integrati, Roma, Italy

2007-2012   *Waveform diversity and design for interoperating radar systems, (Principal Investigator)* funded by European Office of Aerospace Research and Development, grant number FA8655-07-1-3096.

2007-2008   *2D-CFAR techniques for 3D radars, (Principal Investigator)* funded by Reinmethall, Rome, Italy.

2006-2007   *Techniques for range and frequency resolution in radar system*, funded by SELEX-Sistemi Integrati, Rome, Italy.

2005-2008   *Airborne radar and ground-based radar data fusion*, funded by Finmeccanica - SESM, Roma, Italy.

2005-2006   *High resolution radar clutter analysis and modelling for advanced target detection strategies*, funded by Air Force Office of Scientific Research, USAF, grant number FA8655-06-1-3010.

2004-2005   *Statistical analysis and modelling of high resolution ground radar clutter and targets*, funded by United States Army Research, Development, and Standardization Group (USARDSG).

2004-2005   *High resolution radar clutter analysis and modelling for advanced target detection strategies*, funded by Air Force Office of Scientific Research, USAF, grant number FA8655-04-1-3059

2004-2005　*Pseudo-monopulse, moving window and monopulse techniques for DOA estimation in radar systems*, funded by Alenia-Marconi Systems (AMS).

2003-2004　*Radar detection in presence of deception signals*, funded by Alenia-Marconi Systems (AMS).

2003-2004　*Signal processing algorithms for anti-collision laser systems*, funded by Marconi Selenia Communications.

2001-2006　*Object oriented simulation and novel technologies for the modelling of complex environmental systems*, INTERREG III-A project, funded by European Community (EU).

2002-2003　*Non Cooperative Target Recognition*, funded by Alenia-Marconi Systems (AMS).

2000-2002　*Sea surface modeling for remote sensing*, Project MURST "Young researchers".

2000　*Radar Theory and Techniques*, preparation of educational CDs in the framework of the TELECOM project funded by the Tuscany Region (Italy).

1997-2000　*Novel methodologies for the integration, processing, and analysis of data from spaceborne sensors for the monitoring of the hydrosphere, rainfall phenomena, and of the ground*, funded by the Italian Space Agency (ASI).

Project Committees

2025 – Project reviewer for EU Pathfinder.

2024-26 - Projects reviewer for the Innovation Fund Denmark (IFD) – Grand Solutions.

2024 - Projects reviewer for the Swedish Research Council for Interdisciplinary research environments (TVAR) and for the Natural Sciences and Engineering Research Council of Canada (NSERC).

2023 – Project reviewer for the Israel Science Foundation (ISF) and for ERC Synergy 2023.

2023 - MSCA Doctoral Networks reviewer, Horizon 2020, European Commission.

2022 – Project reviewer for the Dutch Research Council (NWO), for the Research Council of the Vrije Universiteit Brussel (VUB), for the Israel Science Foundation (ISF) and for the Natural Sciences and Engineering Research Council of Canada (NSERC).

2021 - Projects reviewer for the Israeli Smart Transportation Research Center (ISTRC), for the Israel Science Foundation (ISF) and for the Swedish Research Council for Interdisciplinary research environments (TVAR).

2020– Project reviewer for Luxembourg National Research fund (FNR) and for Dutch Research Council (NWO).

2019 - Projects reviewer for the Swedish Research Council for Research Environment Grants in Natural and Engineering Sciences.

2018 - Projects reviewer for the Swedish Research Council for Interdisciplinary research environments (TVAR).

2018 – Project reviewer for EU FP7.

2018 – Project reviewer for the German Research Foundation (DFG).

2015-2017 - Projects reviewer for the Swedish Research Council.

2016 - Projects reviewer for the Austrian Academy of Sciences.

2012-2014 - Projects reviewer for the Qatar Foundation.

SERVICES

Professional Societies

Since the beginning of her career and in particular over the last 15 years, Dr. Greco has been deeply involved in multiple activities of IEEE and EURASIP (and other professional societies) as proved by the list below:

Currently:

- Member of CNIT and GTTI since 2000.
- Member of EURASIP since 2005.
- IEEE Fellow since January 2011.
- May 25-Present – Vice President GTTI.
- Jan.26-Dec.27 – Past President of *IEEE Aerospace and Electronic Systems Society*.
- Jan.25-Dec.26 – Member of *EURASIP Board of Governors* and *Director for Finance*.
- Jan.23-Dec.26 – Member of the *IEEE Publishing Conduct Committee (PCC)*.
- Oct.25-Present – Member of the *AESS Low-Altitude Wireless Networks Technical Working Group.*
- 2026-2028 - Co-Chair of the *NATO SET-359* on *Integrated Sensing and Communications.*
- 2020-Present – Member of EDA CapTech Radar
- IEEE Aerospace and Electronic Systems Distinguished Lecturer since 2015.

In the past:
- IEEE Member since 1994.
- IEEE Senior member since June 2004.
- June 2018-September 2024 - Secretary of GTTI.
- Jan.24-Dec.25 – President of *IEEE Aerospace and Electronic Systems Society*.
- May 23-Dec.25 – *Chair of the Steering Committee of IEEE Transactions on Radar Systems,*
- IEEE Signal Processing Society Distinguished Lecturer for the years 2014-2015.

- Jan.22-Dec.23 – President-Elect of *IEEE Aerospace and Electronic Systems Society*.
- Jan.21-Dec.21 – Member of the evaluation committee for the *IET A. F. Harvey Engineering Research Prize 2021*, UK.
- Jan.10-Dec.15 - Member of the *IEEE Sensor Arrays and Multichannel Signal Processing Technical Committee (SAM- TC)* and chair of the *EDU Subcommittee*.
- Jan.19-Dec.20 - Member of the *IEEE Sensor Arrays and Multichannel Signal Processing Technical Committee (SAM- TC)* and chair of the *Technical Directions Subcommittee*.
- Jan. 9-Dec 14 and Jan. 20-Dec. 22 - Member of the *IEEE Signal Processing Theory and Method Technical Committee (SPTM- TC)*.
- Jan.18-Dec. 21– Member of the *IEEE SPS Education Board*.
- Jan 08-Dec. 20 - Member of the *IEEE AESS Radar Systems Panel*.
- June 11-May 14 - Vice-chair of the *IEEE AESS Radar Systems Panel*.
- June 14-June 16 - Chair of the *IEEE AESS Radar Systems Panel*.
- Oct. 11-Oct.16 - Member of the *IEEE Picard Medal Award Committee*.
- Jan. 14-Dec. 15 - Chair of the *IEEE Picard Medal Award Committee*.
- Jan. 15-Dec.16 - Secretary of the *Board of Governors of IEEE AES Society*.
- Jan. 15-Dec.17 - Chair of the *IEEE AESS Fellow Identification Committee*.
- Jan. 15-Dec.17- Member of the *Board of Governors of IEEE SP Society*
- Jan.18-Dec.20 – VP Publications for *IEEE AES Society*
- Jan. 13-Dec.15- Representative for IEEE AESS in the *IEEE Division IX*.
- Jan. 16- Dec.16- Member of the *IEEE SPS TC review committee*.
- Jan. 15- Dec.18 - Member of the *IEEE Fellow Evaluation committee*.
- Jan.16- Dec.18 - Member of the *IEEE Fellow Strategic Plan sub-Committee*.
- June 17-Dec.19-VP Conferences for *IEEE Environmental Engineering Initiative*.
- Sept. 15-Dec.18 - Chair of the EURASIP Special Area Team on Signal Processing for Multisensor Systems (*SAT-SPMuS*).
- Jan. 12-Dec.23 - Member of the *Board of Governors of IEEE AES Society*.
- Jan.21-Dec.24 – Member of *EURASIP Board of Governors* and *Director for Awards*.
- Jan.21-Dec.22 – Vice-Chair of the *IEEE Sensor Arrays and Multichannel Signal Processing Technical Committee (SAM- TC)*.
- Jan.21-Dec.22 – Member of the *IEEE SPS Technical Working Group on Synthetic Aperture* (*TWG-SA*).
- Jan.21-Dec.24 – Co-founder Member of the *IEEE SPS Technical Working Group on Integrated Sensing and Communications* (*TWG-ISAC*).
- Jan.23-Dec.24 –Chair of the *IEEE Sensor Arrays and Multichannel Signal Processing Technical Committee (SAM- TC)*

- Jan.23-Dec.24 –Founder Chair of the *AESS Integrated Sensing and Communication Technical Working Group (ISAC TWG)*

- Jan.24-Dec.24 – Member of *PSPB Strategic Planning Committee*.

- Jan.23-Dec.24 – Member of the *IEEE Publication Services and Products Board (PSPB)*

- Jan.24 – Dec.24 – Member of the *IEEE Medal of Honor Committee*.

- May 23-May 25 – Chair of the *IEEE Fourier Award Evaluation Committee*.

- Jan.21-Dec.22 – Director-at-Large of Region 8 for *IEEE Signal Processing Society*.

- Apr.20-Apr. 22 – Member of the *IEEE Fourier Award Evaluation Committee*.

- 2010-2013 Italian Representative at *NATO SET-164 on Advanced Modeling and Systems Applications for Passive Sensors*.

- 2014-2017 Italian Representative at *NATO SET-207 on Advanced situation-specific modeling, sensing and vulnerability mitigation using passive radar technology*.

- 2015-2018 Italian Representative at *NATO SET-227 on Cognitive Radars*.

- 2019-2022 - Italian Representative at *NATO SET- 268 on Bi-/Multi-static radar performance evaluation under synchronized conditions*.

- 2018-2023 - Italian Representative at *NATO SET-278 (former SET-ET-110)-on Machine Learning for Wide Area Surveillance*.

- 2021-2024 - Co-Chair of the *NATO SET-302* on *Cognitive Radars*.

- 2024-2025 - Co-Chair of the *NATO ET-SET-139* on *Integrated Sensing and Communications*.

Editorial Services

- Guest co-editor of the special issue on "*Low-Bit-Resolution Signal Processing: Algorithms, Implementations, and Applications*", on *IEEE Journal of Selected Topics on Signal Processing*, 2025.

- Guest co-editor of the special issue on "*AI in Signal & Data Science - Toward Explainable, Reliable, and Sustainable Machine Learning*", on *IEEE Journal of Selected Topics on Signal Processing*, 2024.

- Guest co-editor of the special issue on "*Recent Advances in Wideband Signal Processing for Classical and Quantum Synthetic Apertures*", on *IEEE Journal of Selected Topics on Signal Processing*, 2023.

- Guest co-editor of *Frontiers in Signal Processing*, for the Research Topic: *Women in Signal Processing*, 2021.

- Guest co-editor of the special issue on "*Recent Advances in Automotive Radar Signal Processing*", on *IEEE Journal of Selected Topics on Signal Processing,* Vol. 4, June 2021.

- Lead guest editor of the special issue on "*Advances in Radar Systems for Modern Civilian and Commercial Applications*", on *IEEE Signal Processing Magazine*, July/September 2019.

- Guest co-editor of the special issue on "*Machine Learning for Cognition in Radio Communications and Radar*", on *IEEE Journal of Selected Topics on Signal Processing*, March 2018.

- Guest co-editor of the special cluster on "*Signal and Information Processing Education*", on *IEEE Signal Processing Magazine*, 2017.

- Lead guest editor of the special issue "*Advances in Signal Processing for Radar Applications*" on *IEEE Journal of Special Topics on Signal Processing*, December 2015.

- Lead guest editor of the special issue "*Modelling and Processing of Radar Signals for Earth Observation*" on *International Journal of Navigation and Observation,* August 2008.

- Guest co-editor of the special issue "*Adaptive Waveform Design for Agile Sensing Communications*" on *IEEE Journal of Selected Topics on Signal Processing,* June 2007*.

- May 21-May 22 –Topic Editor, Women in Signal Processing, *Frontiers in Signal Processing.*

- Jan.18-Dec. 21– Editor in Chief of *IEEE SP Resource Center.*

- Nov. 16-Dec. 21 - Associate Editor of *IET Signal Processing.*

- Jan. 16- Jan. 20- Senior Area Editor of *IEEE Transactions on Signal Processing (TSP).*

- Jan. 15-Dec. 17- Editor in Chief of *IEEE AE Systems Magazine.*

- Jan. 14-Dec.18- Senior Editorial board member of *IEEE Journal on Selected Topics of Signal Processing* (J-STSP).

- April 08-Dec. 24- Editorial board member of *IET Radar, Sonar and Navigation (IET-RSN).*

- April 08-Dec. 20- Associate Editor of *EURASIP Journal of Advances in Signal Processing (JASP).*

- May 10-Dec. 14- Associate Editor in Chief of *IEEE AE Systems Magazine.*

- Nov. 09- Dec 14- Associate Editor of *IEEE AE Systems Magazine.*

- April 09-Aug. 13- Associate Editor of *IEEE Transactions on Signal Processing (TSP).*

- Regular reviewer for the following international journals:
  IEEE Transactions on Radar Systems, IEEE Trans. on Aerospace and Electronics Systems; IEEE Trans. on Signal Processing; *IEEE Trans. on Antennas and Propagation; IEEE Signal Processing Letters, IEEE Trans. on Geoscience and Remote Sensing, IEEE Journal of Selected Topics on Signal Processing, IET Radar, Sonar and Navigation (former IEE Proceedings - Radar, Sonar and Navigation), IEE Proceedings - Vision, Image and Signal Processing; Electronics Letters; Signal Processing (Elsevier), Journal of Advances in Signal Processing, Digital Signal Processing, IEEE Sensors, IEEE Aerospace and Electronics Systems Magazine, IET Signal Processing, IEEE Access, IEEE Signal Processing Magazine, IEEE Proceedings.*

Conference Organization and Services

- Tutorials and short courses co-Chair of *ICASSP2026*, Barcelona, Spain.

- Plenary Talks co-Chair of *IEEE RadarConf26 (*Phoenix, USA), May 2026

- Technical co-Chair of *IEEE RadarConf25 (*Krakow, Poland), October 2025
- Technical co-Chair of *EUSIPCO 2025 (*Palermo/Isola delle Femmine), September 2025.
- Technical co-Chair of *IEEE JS&C Symposium 2025* (Oulu, Finland)
- Track Chair of *EuRAD25* (*Utrecht*, Netherlands), October 2025.
- Track Chair of *EuRAD24* (*Paris*, France), October 2024.
- General co-Chair of *EUSIPCO 2024* (Lyon, France), September 2024.
- Track Chair of *IEEE Radar Conference 2024* (*RadarConf24*, Denver, USA), May 2024.
- Track Chair of *International Radar Conference 2023* (*RADAR23*, Sydney, Australia), Nov. 2023.
- Satellite Workshops co-Chair, *ICASSP 2023* (Rhodes, Greece), June 2023.
- Technical co-Chair of *CAMSAP 2023* (Costa Rica), December 2023.
- Track Chair of *IEEE Radar Conference 2023* (*RadarConf23*, San Antonio, USA), May 2023.
- Track Chair of *IEEE Radar Conference 2022 (RadarConf22*, NYC, USA), March 2022.
- Track Chair of *IEEE Radar Conference 2021 (RadarConf21*, Atlanta, USA), April 2021.
- Financial Chair of *IEEE SPAWC 2021*, (Lucca, Italy), 2021.
- Technical co-Chair of *EUSIPCO 2021* (Dublin, Ireland), August 2021.
- General co-Chair of the *IEEE Radar Conference 2020* (*RadarConf20*, Florence, Italy), September 2020.
- Tutorials co-Chair of the *IEEE ICASSP 2020* (Barcelona, Spain), April 2020.
- Technical co-Chair of *EUSIPCO 2019* (A Coruna, Spain), September 2019.
- General co-Chair of the *IEEE International Conference on Environmental Engineering*, Milan, Italy, March 2018.
- Area Chair of *EUSIPCO 2018* (Rome, Italy), September 2018.
- Area Chair of *EUSIPCO 2017* (Kos, Greece), September 2017.
- Publicity Chair of *SAM 2016* (*Rio de Janeiro, Brazil*)
- Special Sessions Chair of *CAMSAP 2015* (*Cancun, Mexico*), December 2015.
- Technical co-Chair of *CoSeRa 2015* (*Pisa, Italy*), June 2015.
- Area Chair of *EUSIPCO 2015* (*Nice, France*), September 2015.
- Technical Committee member of *International Radar Symposium IRS-2014* (*Litv, Ukraina*)
- Organizing Committee member of *SAM 2014* (*A Coruna, Spain*)
- Area Chair of *EUSIPCO 2014* (*Lisbon, Portugal*)
- Co-organizer of the *1st EURASIP PhD School on Radar Signal Processing* (Pisa, September 2014)
- Area Chair of *EUSIPCO 2013* (*Marrakech, Morocco*)
- Technical Committee member of *CAMSAP 2013* (*Saint Martin*), December 2013.
- General Co-Chair of *CAMSAP 2011* (*San Juan, Puerto Rico*), December 2011.

- Technical co-Chair of the *2010 International Workshop on Cognitive Information Processing* (*Elba Island, Italy*)
- Technical Committee member of *6th IEEE Sensor Array and Multichannel Signal Processing Workshop, SAM 2010 (Kibutz Ma'ale Hahamisha, Israel)*
- Publications and Publicity Chair of *CAMSAP 2009 (Aruba, Dutch Antilles)*
- Technical Committee member of *Waveform Diversity & Design 2009 Conference (Orlando, FL, USA)*
- Organizer of the *EURASIP seminar day on Radar Signal Processing, 25 Sept. 2009 (Pisa, Italy)*
- Technical Committee member of *EUSIPCO 2008 (Lausanne, Switzerland)*
- Technical Committee member of *the 2008 Conference Computational Advances in Processing Remote Sensing Imagery (Mexico City, Mexico)*
- Paper Management Chair of the *IEEE Radar Conference 2008 (Rome, Italy)*
- General co-Chair of the 2007 *Waveform Diversity & Design Conference (Pisa, Italy)*
- Technical Committee member of *EUSIPCO 2007 (Poznan, Poland)*
- Publications Chair of the Conference *EUSIPCO 2006 (Florence, Italy)*
- Co-organizer of the special session "Machine learning and applications to radar and array processing", at *CAMSAP 2019*, Guadeloupe, West Indies.
- Co-organizer of the special session "Advances in Signal Processing Education", at *ICASSP 2018*, Calgary, Canada.
- Co-organizer of the special session "Waveform and array optimization for multistatic/MIMO radar", at *ASILOMAR 2017*, Pacific Grove, USA.
- Co-organizer of the special session "Signal Processing for Multisensor Systems", at *SAM 2016*, Rio de Janeiro, Brazil.
- Co-organizer of the special session "Bayesian Detection and Estimation Techniques for Radar Applications" at *SSP 2016*, Palma de Mallorca, Spain.
- Co-organizer of the special session "Advanced Signal Processing for Radar Applications" at *EUSIPCO 2015*, Nice, France
- Co-organizer of the special session "Waveform Diversity" at *2015 IEEE International Radar Conference*, Washington DC, USA
- Co-organizer of the special session "Clutter modelling and interference suppression in bistatic radar systems " at *EuRAD 2014* Rome, Italy
- Co-organizer of the special session "Cognitive radio and radar networks" at *CAMSAP 2013*, Saint Martin
- Organizer of the special session "Multistatic sensor networks for radar applications" at *SAM 2012*, Hoboken, NJ, USA

- Co-organizer of the special session "Advances in Waveform Design and Parameter Estimation" at *2010 European Wireless Conference*, Lucca, Italy
- Co-organizer of the special session "Waveform Diversity for Advanced Radar Systems" at *EUSIPCO 2010*, Aalborg, Denmark

- **UNIVERSITY**

  Sept. 2019-Present – Chair of the Telecommunication Engineering Bachelor and Master Program (Presidente del corso di studio).

  July 2019 – Present - Director of the Joint Research Center on "Cognitive Signal Processing" with Xidian University.

  Jan. 2016 –Nov. 2019 - CAI (Responsible of International Activities and ERASMUS Program) for the Dept. of Information Engineering, University of Pisa.

  Jan. 2005- Present - Scientific Responsible of the Signal Processing Laboratory, Dept. of Information Engineering, University of Pisa.

- **Department committees**:

  2025-Present - Member of the ExCom (Giunta) of DII.

  2007-Present - Member of the Permanent Committee of the Ph.D. in Information Engineering, University of Pisa.

  2003-2019 - Member of the "Piani di studio Committee" of the "Corso di Laurea" in Telecommunication Engineering.

  1998-Present. Member of Graduate committees and Advisor of Laurea Theses.

  2004-2010 - Member and Secretary of the Permanent Committee of the Ph.D. in Remote Sensing, University of Pisa.

- **Engineering School/Faculty committees**:

  2019-Present – Member of Engineering School ExCom (Consiglio della Scuola di Ingegneria).

  2005-2012 - Member of the "Autovalutazione" committee of the "Corso di Laurea Specialistica" in Applied Geophysics, University of Pisa

  2005-2012- Member of the "Didattica" committee of the "Corso di Laurea Specialistica" in Applied Geophysics, University of Pisa

  2010-2011 - Member of the Admission Test committee of the Faculty of Engineering, University of Pisa.

  2003-2004 - Member of the Admission Test committee of the Faculty of Engineering, University of Pisa.

  2001-2003. Member of the "Orario Committee" of the Faculty of Engineering.

Tutorials/Short courses

- "*Integrated Sensing and Communications: Fundamentals, State-of-the-Art and the Road Ahead*", short course (4h), EuRAD conference, Utrecht, September 2025.

- "*Robust Adaptive Radar Detection in Presence of Non-Gaussian Clutter*", invited tutorial (2h), Thales Paris, France, September 2023.

- "*Cognitive Radars*", invited tutorial (3h), Thales Paris, France, March 2023.

- "*High resolution sea and ground clutter modelling and analysis*", invited tutorial (3h), Thales Paris, France, March 2023.

- "*Cognitive Radars: Some Application and Some Hint on the Future*", tutorial (2h), The 7th Zhejiang University Graduate International Workshop on Intelligent Signal Processing, October 2022.

- "*Radar Clutter Modelling and Detection in Non-Gaussian Clutter*", tutorial (2h), Behiang University, Beijing, China, July 2019.

- "*Radar detection and estimation*", IEEE AESS Radar Summer School, Seattle, May 2017.

- "*Bistatic Active and Passive Radar Systems*", tutorial (4 h), 2017 IEEE Radar Conference, Seattle, USA, May 2017.

- "*Bistatic Active and Passive Radar Systems*", tutorial (4 h), 2016 IEEE Radar Conference, Philadelphia, USA, May 2016.

- "*Radar Performance in Clutter -modelling, simulation and target detection methods*", short course (4h), EuRAD conference, London, UK, October 2016.

- "*Optimum, Suboptimum and Adaptive Coherent Detection in Non-Gaussian Disturbance*", tutorial (2.5 h), 2015 IET International Radar Conference, Hangzhou, China; October 2015.

- "*High Resolution Sea and Land Clutter Modeling and analysis*", tutorial (4 h), 2015 IEEE International Radar Conference, Washington DC, USA; May 2015.

- "*RF and digital components for highly-integrated low-power radar*", tutorial (4 h), 2012 IEEE Radar Conference, Atlanta, USA; May 2012.

- "*Sea and Land Radar Clutter Modeling*", tutorial (4 h), 2012 IEEE Radar Conference, Atlanta, USA; May 2012.

- "*Sea and Land Radar Clutter Modeling*", tutorial (3 h), 2008 IEEE Radar Conference, Rome, Italy, May 2008.

- "*Radar clutter modeling*", advanced tutorial (3 h), *2005 Radar Conference*, Arlington, USA, Maggio 2005.

Invited lecturers

- "*Cognitive Massive MIMO Radars for ISAC*", **invited speech,** Future of Wireless Sensing Workshop, Munich, Germany, May 2025

- "*Cognitive Radars for Integrated Sensing and Communications*", **invited speech** IEEE ComSoc-AESS-SPS workshop on ISAC, London, UK, 17 May 2024, **AESS distinguished lecture**, 17 December 2024 and KoRaTo **invited webinar**, 15 July 2025.

- "*Clutter Modelling and Analysis*", **invited speech**, Future of Wireless Sensing Workshop, Stockholm, Sweden, April 2024

- "*Analysis and Modeling of Sonar Signals Emitted by Mediterranean Bottlenose Dolphins*" Leonardo Academy, Rome, Italy, November 2023 and October 2024.

- "*Cognitive Techniques for Integrated Sensing and Communications*", **invited speech**, International Workshop on Signal and Information Intelligent and Learning Processing (SIILP), Xi'an, China, July 2023.

- "*Cognitive Radars*", **distinguished lecture**, AESS The Netherland Chapter, Delft, 27 June 2023 and ESA-ESTEC, Noordwijk. 28 June 2023, **AESS webinar** October 2025.

- "*Sensor Selection in Multistatic Radar Networks*", **distinguished lecture**, AESS Bangalore Chapter, 29 November 2022.

- "*Integrated Sensing and Communications: the AESS Perspective*", **invited speech**, AESS ISAC workshop, Edinburgh, 23 October 2022.

- "*Detection and Cognitive Beamforming in Massive MIMO Radars*", **invited speech**, 2022 European Radar Conference, September 2022.

- "*Cognitive Radars: on the Road to Reality*", **invited speech**, Extraordinary Women Extraordinary Science Seminar Series, 11 March 2022 and SPS **SAM webinar**, 20 April 2022.

- "*A reinforcement learning-based approach for beamforming and target detection in massive MIMO radar*", **invited speech**, 2021 CIE International Conference on Radar (RADAR21), Haikou Hainan, China, December 2021.

- "*A reinforcement learning-based approach for target detection in massive MIMO radar*", **invited speech**, GTTI meeting, Lecce, September 2021.

- "*Cognition in Radar Systems*", **invited speech**, 3rd International Symposium on Multi-modal Sensing and Information Processing (ISMSIP 2021), 16-17 July 2021, Xi'an, China.

- "*Cramér-Rao Bounds in MIMO radar in presence of CES-distributed clutter*", **invited speech**, International Workshop on Signal and Information Intelligent and Learning Processing (SIILP), Xi'an, China,10-11 July 2021.

- "*Cognitive Radars*", **invited speech**, WIE Panel, IEEE MetroAeroSpace Conference 2021, June 2021.

- "*Cognitive Radars: the Present and the Envisioned Future*", **keynote speech**, IEEE Radar Conference 2021, Atlanta, USA, May 2021.

- "*High Resolution Radar Clutter Analysis and Modeling for Target Detection",* **distinguished lecture,** Beihang University, Beijng, China, July 2019.

- "*The Misspecified Cramér-Rao Bound (MCRB) and its application to Complex Elliptically Symmetric (CES) distributions*", **invited speech**, International Workshop on Signal and Information Intelligent and Learning Processing (SIILP), Xi'an, China, July 2019.

- "*Cognitive Radars: A Signal Processing Perspective*", **keynote speech**, IET Radar Conference 2018, Nanjing, China, October 2018.

- "*Cognitive Radars: Some Applications*", **keynote speech**, International Workshop on Signal and Information Intelligent and Learning Processing (SIILP), Xi'an, China, July 2018.

- "*Radar Signal Processing and Clutter Modeling*", **distinguished lecture**, ETH, Zurich, Swiss, May 2018.

- "*Radar Detection and Estimation*", AESS Summer Radar School May 2017 (Seattle) and May 2021 (Atlanta).

- "*Spectrum Sensing for Cognitive Radars*", **invited speech**, AFCEA meeting, Roma, Italy, October 2017.

- "*Cognitive Radars: Some Applications*", **distinguished lecture**, Aalto University, Helsinki, Finland, March 2017.

- "*Cognitive Radars: Some Applications*", **keynote speech**, 2016 Global Conference on Signal and Information Processing (GlobalSIP), Washington DC, December 2016.

- *Modeling and Mismodeling in Radar Applications: Parameters Estimation and Bounds*", **distinguished lecture**, CentraleSupélec, Paris, France (June 2015).

- "*Sensor Selection in Radar Networks*", **distinguished lecture**, Technical University of Darmstadt, Germany (April 2015).

- "*Advanced Radar Detection in Non-Gaussian Clutter*", **distinguished lectures**, , Guangzhou, China (October 2016), Farmingdale, US (October 2016), Technical University of Darmstadt, Germany (April 2015), University of Salt Lake City, Salt Lake City (March 2015), ASU, Phoenix (March 2015), University of Athens, Athens (January 2015), Washington University in St. Louis, St. Louis (November 2014), Georgia Tech Research Institute, Atlanta (November 2014), Supélec, Paris (June 2014), , Villanova University, Villanova (May 2014), Drextel University, Philadelphia (May 2014).

- "*Research Funding in Information Sciences*", panel at 2012 International Workshop on Mathematical Issues in Information Sciences (MIIS2012), Xi'an, China, July 2012

- "*Emerging Techniques in Radar Applications*", panel at 2012 International Workshop on Mathematical Issues in Information Sciences (MIIS2012), Xi'an, China, July 2012

- "*New Advances on Radar Detection in Presence of Non-Gaussian Clutter*", **plenary speech** at 2012 International Workshop on Mathematical Issues in Information Sciences (MIIS2012), Xi'an, China, July 2012

- "*Radar Clutter Modelling and Adaptive Target Detection*", **invited speech**, School of Information and Electronics, Beijing Institute of Technology (BIT) , Beijing, China, October 2011.

- "*Statistical Analysis of Data Measured by the HF Surface Wave Radar WERA*", NURC, La Spezia, March 2010.

- "*Extraction and Statistical Analysis of Sea Clutter Spikes*", **invited speech**, IEE One day seminar on Radar Clutter, Paris, France, June 2009.

- "*Radar Signal Processing for Homeland Security*", Workshop Fondazione U. Tiberio, Italian Navy, Livorno, Italy, May 2009.

- "*High Resolution Radar Clutter Analysis and Modeling for Advanced Target Detection Strategies*" EOARD meeting, London, UK, November 2006.

- "*Sea and ground high resolution clutter modeling*", University College London, UK, June 2006.

- "*High resolution land and sea clutter: analysis of Phase-One (MIT-LL) and IPIX (McMaster University) data*", annual meeting of the Italian Telecommunication and Information Theory Group, Reggio Calabria, Italy, June 2005.

- "*Radar detection in presence of deception signals*" Alenia Marconi Systems, Roma, Italy, December 2004

- "*Analysis of acoustic signals emitted by Mediterranean Bottlenose Dolphins*" University of Pisa, Dept. of Ingegneria dell'Informazione, Italy, November 2004

- "*High resolution sea clutter and CFAR techniques,*" GEM, San Benedetto del Tronto, Italy, November 2004

- "*Analysis and modeling of acoustic signals emitted by Mediterranean Bottlenose dolphins,*" SACLANT, La Spezia, Italy, February 2004

- "Multiple *target estimation by exploiting the amplitude modulation induced by antenna scanning*", Alenia Marconi Systems, Roma, Italy, July 2002

- "*Radar detection against Compound-Gaussian clutter with time-varying texture,*" University of Pisa, Italy, July 1998

- "*Coherent radar detection against Compound-Gaussian clutter with time-varying texture model,*" Georgia Tech Research Institute, Atlanta, Georgia, USA, May 1998

Committees of Trust

- Member of Scientific Advisory Group (SAG) for the Prosperity Partnership Grant – Smart Products Made Smarter, Dublin, 2025.

- Member of the Electrical Engineering (EE) Evaluation Committee, TU Delft, 2024.

- Research Master of the 111 Base for Radar Cognitive Detection, Imaging and Target Recognition, Xidian University, Xi'an, China, 2018-2023.

- Member of the Assessment Panel "ICT and Mathematics" in the Aalto University Research Art and Impact Assessment, RAI 2018, 2018.

- Member of the International Panel for the Beijing Institute of Technology (BIT) International Discipline Assessment, 2017.

- Member of the selection committee for Full Professor position, Università di Perugia (2019), Politecnico di Torino (2019), Sant'Anna Pisa (2021), Università di Siena (2022), Università di Parma (2022).

- Member of the selection committee for Associate Professor position, University of Pisa (2018, 2020 and 2021), Università del Salento (2019), Politecnico di Milano (2019), Politecnico di Bari (2021), Sant'Anna Pisa (2023).

- Member of the selection committee for Researcher (Tenure-Track, RTD-A and RTD-B) position, University of Naples Federico II (2020, 2021 and 2023), University of Parma (2021), University of Pisa (2021), University of Luxemburg (2021), Università della Basilicata (2022), Università di Cagliari (2023), University of Rome Sapienza (2023).

- Member of the HDR defence committee for University of Cergy-Pontoise, Paris, France (2022).

Other Teaching Activities

June 25   *GIAN Course: Radar Systems & Advanced Radar Signal Processing with Applications of AI*, course of 20 h, Indian Institute of Technology Jammu, India (on-line).

Jan. 24 – June 24   *Elaborazione del Segnale Sonar* (Sonar Signal Processing), "Master Universitario di II livello in Elettroacustica Subacquea e Sue Applicazioni", University of Pisa, Italy (20 h).

Dic. 2022   "*Array Processing*", 8 h, course of 16 h, IDS GeoRadar, Pisa, Italy.

Nov. 2022   "*Radar Fundamentals*", 2-day AESS course, Brisbane and Adelaide, Australia.

June 20, July 21 and 22 "*Detection Theory*", course of 16 h, International Summer School, Xidian University, Xi'an, China (on-line).

Sept. 19, July 23   "*Fundamentals of Radar Signal Processing*", course of 38 h for the Master of Engineering in Radar and Electronic Defence, University of Cape Town, South Africa.

July 2019   "*Fundamentals of Radar Signal Processing*", course of 24 h, International Summer School, Xidian University, Xi'an, China.

June 2011, July 2013, June 2015 "*Radar Clutter Modelling and Coherent Target Detection*", course of 38 h for the Master of Engineering in Radar and Electronic Defence, University of Cape Town, South Africa.

Nov. 16 – May 17 *Elaborazione del Segnale Sonar* (Sonar Signal Processing), "Master Universitario di II livello in Elettroacustica Subacquea e Sue Applicazioni", University of Pisa, Italy (20 h).

Dec. 10 – May 11 *Elaborazione del Segnale Sonar* (Sonar Signal Processing), "Master Universitario di II livello in Elettroacustica Subacquea e Sue Applicazioni", University of Pisa, Italy (12 h).

Dec. 10 – May 11 *Elaborazione del Segnale Sonar* (Sonar Signal Processing), "Master Universitario di II livello in Elettroacustica Subacquea e Sue Applicazioni", University of Pisa, Italy (12 h).

Dec. 04 – May 05 *Elaborazione del Segnale Sonar* (Sonar Signal Processing), "Master Universitario di II livello in Elettroacustica Subacquea e Sue Applicazioni", University of Pisa, Italy (12 h).

Jan.–Mar. 2001   *Radar detection in the presence of clutter*, Ch. 4 of the educational CD "Radar Theory and Techniques," within TELECOM project.

Jan.–Apr. 2001   *Digital Communications*, within the IFTS 2000/01 formation program entitled "Telecommunication technician expert in telecommunication networks and multimedia systems," funded by the Tuscany Region and co-organized by the University of Pisa.

SCIENTIFIC COLLABORATIONS AND RELATED PUBLICATIONS

Over last 20 years, Dr. Greco has established and developed many cooperations with national and international renowned researchers as detailed below:

- Dr. **Barry J. Billingsley**, Massachusetts Institute of Technology, Lincoln Laboratory, Lexington, Massachusetts, USA [J8], [J15], [J16], [C9], [C12].

- Dr. **Rémy Boyer**, CentraleSupélec, Paris-Saclay, Paris, France [J71], [C113]

- Dr. **Stefano Coraluppi**, Dr. **Raffaele Grasso**, and Dr. **Paolo Braca**, NATO Undersea Research Center (NURC), La Spezia, Italy [J56], [J59], [C47], [C56], [C57], [C63], [C64], [C86], [C88], [C91], [C93], [C98], [C99], [C100].

- Dr. **Alfonso Farina**, SELEX-Sistemi Integrati, Rome, Italy [J4], [J5], [J6], [J7], [J8], [J9], [J13], [J14], [J15], [J16], [J21], [J22], [J24], [J25], [J27], [J32], [J33], [J35], [J37], [J40], [J41], [J43], [J45], [J47], [J48], [J50], [B1], [B3], [C3], [C4], [C5], [C6], [C7], [C9], [C10], [C11], [C12], [C14], [C15], [C16], [C17], [C18], [C21], [C25], [C32], [C34], [C37], [C39], [C40], [C41], [C44], [C46], [C49],

22

[C52], [C53], [C55], [C59], [C62], [C66], [C68], [C69], [C73], [C75], [C77], [C79], [C80], [C81], [NC1].

- Prof. **Georgios B. Giannakis**, Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, MN, USA [J18].
- Prof. **Hugh Griffiths**, University College London, UK [RJ6], [C105].
- Prof. **Simon Haykin**, McMaster University, Ottawa, Canada [B2].
- Prof. **Mike Inggs** and Prof. **Daniel O'Hagan**, University of Cape Town, South Africa [J53], [C76].
- Dr **Peter H. Lee**, TRW, Space & Technology Division, Space & Electronics Group, Redondo Beach, CA, USA [J4].
- Prof. **Pierfrancesco Lombardo**, University of Rome "Sapienza," Rome, Italy [J6], [J13], [J16], [C3], [C4], [C7], [C9].
- Prof. **Vishal Monga**, Pennsylvania State University, USA. [J108], [J123].
- Prof. **Frederic Pascal** and Dr. **Romaine Couillet**, CentraleSupélec, Paris-Saclay, Paris, France [C103].
- Dr. **Muralidhar Rangaswamy** and Dr. **Braham Himed**, Air Force Research Laboratory, Rome, USA. [J28], [J35], [J39], [J44], [J63], [J65], [J66], [J72], [J73], [RJ6], [B3], [C29], [C30], [C43], [C59], [C90], [C101], [C108].
- Dr. **Luke Rosenberg**, DSTG, Adelaide, Australia [RJ5].
- Dr. **Kevin J. Sangston**, Georgia Tech Research Institute, Atlanta, GA, USA [J7], [J42], [C5], [C7], [C10], [C58], [C60], [C96], [B7].
- Prof. **Xiangrong Wang**, Beihang University, Beijing, China [J76], [J78], [J79], [J81].
- Dr. **Simon Watts**, Thales, Visiting Professor in Electronic and Electrical Engineering at University College London, UK [J34], [B4], [C54].
- Prof. **Ami Wiesel,** The Hebrew University of Jerusalem, Israel [J51], [C84].
- Prof. **Junkun Yan**, Xidian University, Xi'an, China [J74], [J77], [J86], [J87], [J92]
- Prof. **Tong G. Zhou**, School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, GA, USA [J18].
- Prof. **Abdelhak Zoubir**, Technische Universitat Darmstadt, Germany [J36], [J72], [C43], [C56], [C57], [C64].
- Prof. **Amir Zaimbashi**, Department of Electrical Engineering, University of Kerman, Kerman, Iran [J82], [J95], [J102], [J111]

DETAILED RESEARCH ACTIVITY

Dr. Greco's research activities focuses on problems of statistical signal processing with particular attention to radar applications. The main past and present research themes can be grouped as follows,

- **Modeling and statistical analysis of recorded live sea and ground radar clutter data**, in **both monostatic and bistatic systems, passive and active.** This activity has been partially supported over the year by the projects "*Novel methodologies for the integration, processing, and analysis of data from spaceborne sensors for the monitoring of the hydrosphere, rainfall phenomena, and of the ground*" funded by the Italian Space Agency (ASI), and AFOSR grant on "*High resolution radar clutter analysis and modelling for advanced target detection strategies*". This topic, particularly regarding passive radars, has been one of main focuses of the *NATO SET-164* and *NATO SET-207* for which Dr. Greco is the Italian Representative. This research activity has produced over the years many publications in cooperation with researchers of Alenia-Marconi Systems-Finmeccanica, MIT Lincoln Laboratory, TRW, Defense Research Establishment Ottawa (DREO), University College London (UCL), University of Cape Town (UCT). [J4], [J5], [J8], [J11], [J14], [J15], [J17], [J18], [J22], [J27], [J28], [J35], [J49], [J54], [RJ5], [B2], [B4], [C6], [C7], [C12], [C13], [C14], [C19], [C24], [C27], [C29], [C30], [C31], [C35], [C45], [C47], [C50], [C56], [C57], [C74], [C83], [C90], [C125].

- **Optimum, adaptive and robust detection and estimation of radar signals in non-Gaussian clutter.** This research activity has been carried out in cooperation with researchers of Alenia-Marconi Systems (now SELEX-SI), Georgia Tech Research Institute (GTRI) and under the framework of the project "Robust Hypothesis Testing for Radar Applications", funded by EOARD. [J2], [J3], [J6], [J7], [J9], [J10], [J12], [J13], [J14], [J16], [J19], [J29], [J33], [J38], [J47], [J48], [J51], [J57], [J58], [J62], [J69], [J71], [J72], [J73], [J80], [J83], [RJ2], [M2], [B6], [C1], [C2], [C3], [C4], [C5], [C7], [C8], [C9], [C10], [C11], [C21], [C33], [C36], [C43], [C54], [C57], [C58], [C60], [C68], [C82], [C87], [C94], [C102], [C104], [C105], [C109], [C107], [C117], [C123], [C126], [NC11].

- **Detection and estimation of multiple radar targets.** This work has been funded by Alenia-Marconi Systems (AMS) through the contract "*Non Cooperative Target Recognition.*" [J21], [J22], [J24], [J25], [J32], [B1], [C15], [C16], [C17], [C18], [C28], [C40].

- **Radar detection in presence of deception signals.** This work has been funded by Alenia Marconi Systems (AMS) through the contract "*Radar detection in presence of deception signals*". [J27], [J33], [C25], [C32], [C34], [C37].

- **Cognitive radars, waveform diversity, MIMO radars.** This body of work has been first funded by *European Office of Aerospace Research and Development (EOARD),* through the project "*Waveform diversity and design for interoperating radar system*" then through the project "*Waveform Diversity and Frequency Sharing Techniques for Cognitive Radar Systems*", by *SELEX-ES*, Rome, Italy, through the project FARADAYS, "*Frequency Sharing Techniques for Future Radars*", through the project "*Exploiting Spatial Diversity for Massive MIMO Radars*" funded by *EOARD* and currently through the project "*COMURAS - Cognitive Multistatic Radars for Dynamical Environment Sensing*" funded by *EOARD.* [J32], [J38], [J41], [J50], [J56], [J59],

[J61], [J63], [J64], [J73], [J75], [J80], [J81], [J83], [RJ3], [RJ6], [B3], [B7], [C38], [C41], [C52], [C53], [C59], [C61],[C65], [C67], [C75], [C78], [C80], [C81], [C85], [C88], [C92], [C95], [C99], [C106], [C107], [C122], [C124], [NC4], [NC5], [NC6], [NC9].

- **Integrated Sensing and Communication (ISAC).** This body of work has been first funded by *the Italian Ministry of Research (MUR),* through the PRIN project, *"CIRCE - CommunIcations and Radar Co-Existence".* Currently it is also funded by the PNRR project *"FLARE - FLexible And distributed cognitive Radar systEms"* [J56], [J89], [J117], [B9], [C129], [C133].

LIST OF PUBLICATIONS

Impact figure (as of December 31, 2025)
h-index of Google Scholar: 48
h-index on Scopus: 44
i10-index: 149
Citations: 9588

National Journals

[J1]   E. Dalle Mese, F. Gini, F. Lombardini, M. Greco, L. Verrazzani, "Sensori Multipli ed Integrazione dei Dati," *Alta Frequenza*, Vol. 6, No. 1, Gennaio-Febbraio 1994 (in Italiano).

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