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Personal Data

- ◇ **Born:** February 13, 1967.
- ◇ **Country:** Spain.
- Married, 2 sons.

Education:

- ◇ **Ingeniero de Telecomunicación.** Universidad de Santiago de Compostela, Spain, September 1990.
- ◇ **Ph.D. Telecommunications Engineering.** Universidad de Vigo, Spain, June, 1993. Advisors: Prof. Domingo Docampo (University of Vigo) and Prof. Chaouki Abdallah (University of New Mexico).

Experience:

- ◇ **January 2013-Present**, Research Professor. Electrical and Computer Engineering Department, University of New Mexico, USA.
- ◇ **December 2007 - August 2014**, Founder and Executive Director of GRADIANT (Galician R&D Center in Telecommunications), Semi-private center established by the Galician Regional Government, 3 universities and 11 private companies, with more than 80 staff engineers.
- ◇ **May 2012 - December 2012**, Visiting Professor. Electrical and Computer Engineering Department, University of New Mexico, USA.
- ◇ **May 2009 - April 2012**, Holder of the Prince of Asturias Endowed Chair in Information Sciences and Related Technologies. Electrical and Computer Engineering Department, University of New Mexico, USA.
- ◇ **March 2007 - February 2010**, Program Manager of the National R&D Plan (Electronics and Communication Technologies Program). Spanish Ministry of Science and Innovation. *Overseen annual budget of 21 million Euro.*
- ◇ **December 2000 - Present**, Professor, Communications Technologies Dept. E.T.S.E. Telecomunicación. Universidad de Vigo.
- ◇ **June 2000 - April 2001**. Vice-dean, Higher School of Telecommunications Engineering, Universidad de Vigo.
- ◇ **June 1995-Present**. Founder and leader of the Signal Processing in Communications Group (GPSC), University of Vigo. Currently, the group is formed by two professors, three associate professors, 3 postdoc researchers, and 15 PhD students and research engineers.

- ◇ **January 1995 - December 2000.** Associate Professor, Communications Technologies Dept. Universidad de Vigo.
- ◇ **October 1993 - January 1995.** Assistant Professor, Communications Technologies Dept. Universidad de Vigo.
- ◇ **October 1990-September 1993.** Research Assistant. Communications Technologies Dept. Universidad de Vigo.

- Professional Activities:**
- ◇ Member, The Institute of Electrical and Electronics Engineers (IEEE).
 - ◇ Member, IEEE Signal Processing Society.
 - ◇ Member, EURASIP.
 - ◇ Member, Association Computing Machinery (ACM).
 - ◇ Member, Spanish Institute of Telecommunication Engineers.

- Areas of Teaching Experience:**
- ◇ Digital Signal Processing.
 - ◇ Real-time Signal Processing.
 - ◇ Statistical Signal Processing.
 - ◇ Adaptive Filters.
 - ◇ Digital Communications.
 - ◇ Cryptography and Watermarking.
 - ◇ Multimedia Security.

- Areas of Research Experience:**
- ◇ Robust Stability and Signal Processing.
 - ◇ Digital Signal Processors and Architectures.
 - ◇ Adaptive Algorithms.
 - ◇ Digital Communications.
 - ◇ Cognitive Radio.
 - ◇ Parameter Estimation from Decentralized Sensors.
 - ◇ Watermarking and Data-hiding.
 - ◇ Network and Media Forensics.

- Awards and distinctions:**
- ◇ Fellow, The Institute of Electrical and Electronics Engineers (IEEE), 2016.
 - ◇ Member, Galician Royal Academy of Sciences, 2014.
 - ◇ P. Comesaña and F. Pérez-González. *The Optimal Attack to Histogram-based Forensic Detectors is Simple(x)*. 6th IEEE International Workshop on Information Forensics and Security, WIFS14, Atlanta, GA, December 2014. Best Paper Award.
 - ◇ “Engineer of the Year”, Galician Institute of Telecommunication Engineers, 2011.
 - ◇ J. Elices, F. Pérez-González and C. Troncoso. *Fingerprinting TOR’s Hidden Service Log Files Using a Timing Channel*. IEEE Intl. Workshop on Information Forensics and Security, WIFS’11, Foz de Iguazu, Brazil, November-December 2011. Gold Award to Best Student Paper.

- ◇ P. Comesaña, F. Pérez-González and C.T. Abdallah. *Witsenhausen's Counterexample and its Links with Multimedia Security Problems*. International Workshop on Digital-forensics and Watermarking, IWDW11, Atlantic City, New Jersey, October 2011. Best Paper Award.
- ◇ Galician Institute of Telecommunication Engineers Award to Best Product in Information and Communication Technologies, Bit Oceans' "Fividoc" printed document protection, 2008.
- ◇ University of Santiago award to entrepreneurship, Bit Oceans, 2008.
- ◇ L. Pérez-Freire and F. Pérez-González, *Spread Spectrum Watermarking Security*, IEEE Transactions on Information Forensics and Security, 4(1):2-24, March 2009. Nominated by the IFS-TC (Information Forensics and Security Technical Committee) to the IEEE Signal Processing Society Young Author Best Paper Award.
- ◇ L. Pérez-Freire and F. Pérez-González. *Exploiting security holes in lattice data hiding*. 7th Information Hiding Workshop. Saint-Malo, France, June 2007. Best Young Researcher Paper Award.
- ◇ Intensification of Research Activity (I3 grant by the Spanish Ministry of Education and Science), 2006-2007.
- ◇ GaliciaTIC 2005 Award to Digital Innovation.
- ◇ 2001 E.T.S.E.T. Award to Cooperation with Industry.
- ◇ MITE 2000 Award to entrepreneurship.
- ◇ 2000 E.T.S.E.T. Award to Cooperation with Industry.
- ◇ Research Fellowship given by the National Plan for Researcher Training, January 1991-September 1993.

Citation Metrics:

- ◇ **Google Scholar**. Total citations: 4091, h-index: 29, i-index: 72.
- ◇ **Scopus (excluding self-citations)**. Total citations: 1682, h-index: 19.

Short Courses:

- ◇ **Adversarial Signal Processing**, with M. Barni. Half-day Tutorial at IEEE Workshop on Information Forensics and Security (WIFS), Rome, Italy, 2015.
- ◇ **Statistical Signal Processing for Multimedia Forensics and Security**, 20 hour course, Politecnico di Milano, 2015.
- ◇ **Security Issues in Digital Watermarking**, with M. Barni. Half-day Tutorial at IEEE International Conference on Image Processing (ICIP), Genoa, Italy, 2005.
- ◇ **Multimedia Information Protection**, 2001, Universidad Carlos III, Madrid, Spain.
- ◇ **Digital Communications**, 1998, Galician Public Television Company.
- ◇ **Digital Television**, 1997, 1998, Universidad de La Coruña, Spain.
- ◇ **Digital Cryptography**, 1995, Electronic Military Council, Madrid, Spain

Invited Talks:

- ◇ **Location Privacy. Where do we stand and where are we going?**, Keynote Talk at First EAI International Conference on Security and Privacy in New Computing Environments (SNPCE'16), Guangzhou, China, 2016; Lecture at Sun Yat-Sen University, Guangzhou, China, 2016; Lecture at Shenzhen University, Shenzhen, China, 2016.
- ◇ **Grissom in Awe: The CSI Effect and Media Forensics**, IEEE/EURASIP Summer School on Signal Processing, Cavalese, Italy, 2016.

- ◇ **Privacy as a Business**, Galician ICT Specialization Forum, Santiago de Compostela, Spain, 2016.
- ◇ **Adversarial Signal Processing**, Contact Forum “Coding Theory and Cryptography VI”, The Royal Flemish Academy of Belgium for Science and the Arts, Brussels, Belgium, 2015, and IMDEA Software Center, Madrid, 2016.
- ◇ **More than Meets the Eye. Photoshop and the New Science of Media Forensics**, Opening Speech Year 2015, Galician Royal Academy of Sciences, Santiago de Compostela, Spain, 2015.
- ◇ **Shannon’s Ultimate Riddle**, Inaugural Address, Galician Royal Academy of Sciences, Santiago de Compostela, Spain, 2014.
- ◇ **The Illusion of Longitude**, Barrié Foundation, A Coruña, Spain, 2012, and Health Research Institute, Santtiago de Compostela, Spain, 2012.
- ◇ **When Seeing is not Believing**, Club Faro de Vigo, Spain, 2012.
- ◇ **Media Forensic Science: How to Prove the Authenticity and Integrity of Media Objects**, Spanish National Police Days, Vigo, Spain, 2012.
- ◇ **The Galician ICT Sector**, Regional innovation systems: from vision to reality. Second Conference of the Forum di Torino, Santiago de Compostela, 2009.
- ◇ **Informed Data Hiding: There’s Plenty of Room at the Bottom**, University of New Mexico, 2008.
- ◇ **The End of Telecommunications**, Summer Courses, Pontevedra, Spain, 2008.
- ◇ **Information and Communication Technologies in Galicia**, Galician Culture Council, Santiago, Spain, 2008.
- ◇ **Security Topics in Digital Watermarking and Data Hiding**, ECRYPT Summer School, Thessaloniki, Greece, 2007.
- ◇ **Watermarking Can Kill**, University of New Mexico, 2006.
- ◇ **Benford’s Law: The Digits that Came from Heaven**, University of New Mexico, 2006
- ◇ **The Disappearance of Digital Rights**, Spanish Royal Academy of Engineering, Madrid, 2006.
- ◇ **Methods and Techniques for digital Content Protection**, Fundación Abertis, Madrid, 2006.
- ◇ **Put a Watermark in your Life**, Ecole Supérieure des Communications, Tunis, 2005.
- ◇ **Deconstructing the Man-machine**, Summer Courses, Pontevedra, Spain, 2004.
- ◇ **Costa on the Real Line: Misconceptions and Perspectives**, Université de Geneva, Switzerland, 2004.
- ◇ **Spread-spectrum vs. Quantization-based Watermarking: Facts and Misconceptions**, University College Dublin, 2004.
- ◇ **Analytical Tools for Data Hiding Methods**, Information Communication University, Taejon, Korea, 2003.
- ◇ **The Importance of Aliasing in Structured Quantization Index Modulation Data Hiding**, Keynote Lecture at 2nd International Workshop on Digital Watermarking, Seoul, Korea, 2003.
- ◇ **Signal Processing Techniques for Multicarrier Modulations**, Universidad Carlos III, Madrid, Spain, 2003.
- ◇ **The Importance of Modular Probability Density Functions in Data Hiding Applications**, Université de Geneva, Switzerland, 2003.

- ◇ **Capacity Limits in Watermarking**, CAST Forum, Darmstadt, Germany, 2002.
- ◇ **Security in Mobile Communication Systems**, Summer Courses, Santander, Spain, 2001.
- ◇ **Multimedia Information Protection**, XVI Summer Courses, Laredo, Spain, 2000.

**Major
Professor:**

◇ **Ph.D. Students**

10. David Vázquez-Padín. Dissertation: *Detection of Image Resampling and Video Encoding Footprints for Forensic Applications*, 2016.
9. Gabriel Domínguez-Conde. Dissertation: *Flat Fading Channel Estimation Based On Dirty Paper Coding*. Co-advised with Pedro Comesaña, 2016.
8. Juan Elices. Dissertation: *Neyman-Pearson Decision in Traffic Analysis*, University of New Mexico, 2014.
7. Juan-Ramón Troncoso-Pastoriza. Dissertation: *Encrypted Domain Processing for Signal Processing Applications*, 2012 (awarded best Ph.D. Thesis in Spain in Telecommunication Networks and Services by the Spanish Institute of Telecommunications Engineers).
6. Luis Pérez-Freire. Dissertation: *Digital Watermarking Security*, 2008 (awarded best Ph.D. Thesis in Spain in Management, Economy and Regulation of Telecommunications by the Spanish Institute of Telecommunications Engineers).
5. Pedro Comesaña. Dissertation: *Side-Informed Data Hiding: Robustness and Security Analysis*, 2006 (awarded best Ph.D. Thesis in Spain in Security and Defense by the Spanish Institute of Telecommunications Engineers).
4. Félix Balado. Dissertation: *Digital Image Data Hiding using Side Information*, 2003.
3. Roberto López-Valcarce. Dissertation: *Adaptive Algorithms for Identification and Equalization using Recursive Filters*, 2001.
2. Juan Ramón Hernández. Dissertation: *Invisible Watermarking Techniques for Author Rights Protection* (in Spanish), 1998 (awarded best Ph.D. Thesis in Spain in Electronic Commerce by the Spanish Institute of Telecommunications Engineers).
1. Carlos Mosquera. Dissertation: *SPR Condition Relaxation in Recursive Adaptive Filtering* (in Spanish), 1998.

◇ **M.S. Students**

- Adviser of more than 50 Students with M.S. Thesis.

**Funded
Research
Projects:**

- ◇ *CHAMACO: Noise Detection in Images*. Principal Investigator: Fernando Pérez-González. Funded by: Gradient, 2017. Amount: 26,000 Euro.
- ◇ *Draft Map of Skills for the Aeronautical Sector in Galicia*. Principal Investigator: Fernando Pérez-González. Funded by: Galician Regional Government, 2015. Amount: 8,000 Euro.
- ◇ *DIFFERENT: Interferenceless Digital Terrestrial Television by Combining Analog and Digital Filtering with Signal Enhancement and Transmit Noise Removal*. Principal Investigator: Fernando Pérez-González. Funded by: Televes, 2015. Amount: 44,550 Euro.
- ◇ *COMONSENS Network*. Principal investigator: Roberto López Valcarce. Funded by: Spanish Ministry of Science and Innovation, 2014. Amount: 51,500 Euro.
- ◇ *AtlantTIC: Consolidation and Structuring of Competitive Research Units (Strategic Clusters)*. Principal Investigator: Nuria González-Prelcic. Funded by: Regional Government, 2014. Amount: 900,000 Euro

- ◇ *WITDOM: Empowering Privacy and Security in Non-trusted Environments*. Principal Investigators: Fernando Pérez-González and Juan Troncoso. Funded by: European Union, H2020 Framework Programme, 2015. Amount: 530,687 Euro.
- ◇ *RedTEIC: Network on Emerging Technologies on Information and Communications*. Principal investigators: Adriana Dapena, Fernando Pérez-González, Javier González and Richard Duro. Funded by: Galician Regional Government, 2014. Amount: 200,000 Euro.
- ◇ *COMPASS: Communications and Signal Processing in Adverse Scenarios*. Principal investigator: Roberto López Valcarce. Funded by: Spanish Ministry of Science and Innovation, 2014. Amount: 169,100 Euro.
- ◇ *TACTICA: Boosting the Galician ICT Hub*. Principal Investigator: Nuria González-Prelcic. Responsible for Workpackage 7 (Privacy Enhancing Technologies): Fernando Pérez-González. Funded by: European Development Fund. Amount: 8,800,000 Euro.
- ◇ *NIFTY: Novel Image/photo Forensic Tools for fighting against child pornography*. Principal Investigators: Fernando Pérez-González and Pedro Comesaña. Funded by: European Union, 7th Framework Programme, 2013. Amount: 130,391 Euro.
- ◇ *Competitive Reference Groups*. Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2013. Amount: 370,000 Euro.
- ◇ *SCAPE: Securing the Cloud with Automated Privacy Enhancement*. Principal Investigators: Fernando Pérez-González and Javier González Castaño. Funded by: Barrié Foundation, 2012. Amount: 435,080 Euro
- ◇ *AtlantTIC: Consolidation and Structuring of Competitive Research Units (Strategic Clusters)* Principal Investigators: Nuria González-Prelcic. Funded by: Regional Government, 2012. Amount: 500,000 Euro
- ◇ *PRISMED: Medical Data Privacy and Security in Unsecure Environments*. Principal Investigators: Fernando Pérez-González. Funded by: Spanish Ministry of Science and Innovation, INNFACTO subprogram, 2011. Amount: 73,150 Euro
- ◇ *REWIND: Reverse Engineering of Audio-visual Content Data*. Principal Investigator: Fernando Pérez-González. Funded by: European Union, 7th Framework Programme, Open-FET Call, 2011. Amount: 301,464 Euro
- ◇ *DYNACS: Dynamic Spectrum Access and Cognitive Communications*. Principal Investigator: Roberto López-Valcarce. Funded by: Spanish Ministry of Science and Innovation, 2011. Amount: 217,600 Euro
- ◇ *SCALLOPS: Channel Estimation with Dirty Paper Codes*. Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2010. Amount: 66,870 Euro.
- ◇ *Competitive Reference Groups*. Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2010. Amount: 168,000 Euro.
- ◇ *Printed Digital Signature*. Principal Investigator: Fernando Pérez-González. Funded by: Bit Oceans Research S.L., 2010. Amount: 53,362 Euro.
- ◇ *CHIST- ERA: European Coordinated Research on Long-term Challenges in Information and Communication Sciences and Technologies*. Steering Board Member: Fernando Pérez-González. Funded by: European Union, 7th Framework Programme, 2009. Amount: 117,646 Euro.
- ◇ *System for Management and Distribution of IP Services over Cable Networks*. Principal Investigator: Fernando Pérez-González. Funded by: Televés, S.A., 2009. Amount: 425,646 Euro.
- ◇ *ACETIC: Cluster in Information and Communication Technologies Engineering*. Principal Investigator: Nuria González-Prelcic. Funded by: Xunta de Galicia (Regional Gov.), 2009. Amount: 750,000 Euro.

- ◇ *MPEG2-TS Multiplexer*. Principal Investigator: Fernando Pérez-González. Funded by: Televés, S.A., 2009. Amount: 73,022 Euro.
- ◇ *SAFECLOUD: Security and Privacy with Encrypted Processing Technologies in Cloud Computing*. Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2009. Amount: 164,843 Euro.
- ◇ *Galician Research and Development Center in Advanced Telecomms*. Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2008. Amount: 2,484,500 Euro over 3 years.
- ◇ *MIND-GAP5: Research on multimedia technologies for the Galician industry in the next 5 years*. Principal Investigator: Javier Gonzalez-Castaño. Funded by: Regional Government, 2008. Amount: 184,500 Euro.
- ◇ *REEFS: Sensor networks for spectral monitoring using FPGAs*. Principal Investigator: Carlos Mosquera. Funded by: Regional Government, 2008. Amount: 165,500 Euro.
- ◇ *Echo Cancellor in Intermediate Frequency*. Principal Investigator: Roberto López-Valcarce. Funded by: Tredess 2010, S.L., 2008. Amount: 74,000 Euro.
- ◇ *Development of an IP Platform for Multimedia Services Reception*. Principal Investigator: Javier González-Castaño. Funded by: Arantia, S.L., 2008. Amount: 160,000 Euro.
- ◇ *Consolidation of Technology Platform*. Principal investigator: Fernando Pérez-González. Funded by: Regional Government, 2008. Amount: 180,000 Euro.
- ◇ *Strategic Plan for Technology Platform*. Principal Investigator: Fernando Pérez-González. Funded by: Spanish Ministry of Industry. Amount: 100,000 Euro.
- ◇ *Scanphone: Antifraud systems with Mobile Phones*. Principal Investigator: Fernando Pérez-González. Funded by: Bit Oceans Research, S.L., 2008. Amount: 39,675 Euro.
- ◇ *Cable Networks Impedance Mismatch Location*. Principal investigator: Fernando Pérez-González. Funded by: Gsertel, 2008. Amount: 34,000 Euro.
- ◇ *Lightweight Software-defined Cable Modem*. Principal investigator: Fernando Pérez-González. Funded by: Televés, 2008. Amount: 99,000 Euro.
- ◇ *COMONSENS: Foundations and Methodologies for Future Communication and Sensor Networks*. Principal investigator: Roberto López-Valcarce and Javier Rodríguez-Fonollosa. Funded by: Spanish Ministry of Science and Innovation, 2008. Amount: 243,000 Euro.
- ◇ *FACTICA: Active Tools for Trusted Multimedia*. Principal investigator: Fernando Pérez-González. Funded by: Galician Regional Government, 2008. Amount: 95,933 Euro.
- ◇ *Mobile Digital Television Reception/Retransmission with the Emerging Standard DVB-H*. Principal investigator: Carlos Mosquera. Funded by: Galician Regional Government, 2008. Amount: 93,564 Euro.
- ◇ *SPROACTIVE: Advanced Signal Processing Techniques for Cognitive Radio*. Principal investigator: Roberto López-Valcarce. Funded by: Spanish NSF, 2007. Amount: 276,606 Euro.
- ◇ *Consolidation of the Galician ICT Technology Platform*. Principal investigator: Fernando Pérez-González and Javier González Castaño. Funded by: Galician Regional Government, 2008. Amount: 122,346 Euro.
- ◇ *REGACOM: Galician Network in Communications Engineering*. Principal investigators: Luis Castedo, Fernando Pérez-González, Javier González and Víctor Gulías. Funded by: Galician Regional Government, 2008. Amount: 180,000 Euro.
- ◇ *E2E RM (End to End Rights Management) Interoperable Platform*. Principal investigator: Fernando Pérez-González. Funded by: SDAE and Microgenesis, 2007. Amount: 72,200 Euro.

- ◇ *CINNEO: Audiovisual Contents Distribution Digital Platform for DCI Standards*. Principal investigator: Fernando Pérez-González. Funded by: SDAE and Microgenesis, 2007. Amount: 55,200 Euro.
- ◇ *Watermarking for videosupervision system embedded in IP cameras with different architectures*. Principal investigator: Fernando Pérez-González. Funded by: Tredess 2010, S.L., 2007. Amount: 27,520 Euro.
- ◇ *Viability study of a management and distribution system of IP services in cable networks*. Principal investigator: Fernando Pérez-González. Funded by: Televés S.A., 2007. Amount: 55,040 Euro.
- ◇ *Viability study for an integral communications system in TV distribution networks*. Principal investigator: Fernando Pérez-González. Funded by: Televés S.A., 2007. Amount: 27,520 Euro.
- ◇ *Programmable hardware architecture for IP streaming of digital television signals*. Principal investigator: Fernando Pérez-González. Funded by: Televés S.A., 2007-2008. Amount: 52,285 Euro.
- ◇ *Robust spectral shaping for communication equipment*. Principal investigator: Roberto López-Valcarce. Funded by: Tredess 2010, S.L., 2007. Amount: 55,040 Euro.
- ◇ *Consolidation and structuring of competitive research units (Competitive reference group)*. Principal investigator: Fernando Pérez-González. Funded by: Galician Regional Government, 2006-2009. Amount: 340,000 Euro.
- ◇ *Creation of the Galician Technology Platform on ICTs*. Principal investigators: Fernando Pérez-González and Javier González Castaño. Funded by: Galician Supercomputing Center, 2006-2007. Amount: 40,600 Euro.
- ◇ *Watermarking for surveillance systems*. Principal investigator: Fernando Pérez-González. Funded by: Tredess 2010 S.L., 2006-2007. Amount: 17,350 Euro.
- ◇ *Service management and DVB-T modulator on FPGA architectures*. Principal investigator: Fernando Pérez-González. Funded by: Televés S.A., 2006-2007. Amount: 56,250 Euro.
- ◇ *Research Contract in Telecommunications*. Principal investigator: Fernando Pérez-González. Funded by: TELCOR, 2005-2007. Amount: 615,000 Euro.
- ◇ *Research Reference Groups*. Principal investigator: Fernando Pérez-González. Funded by: Galician Regional Government, 2005-2008. Amount: 43,200 Euro.
- ◇ *DIPSTICK: Theory and Applications of Dirty Paper Signaling*. Principal investigator: Carlos Mosquera. Funded by: Spanish National Science Foundation, 2004-2007. Amount: 171,260 Euro.
- ◇ *R&D Contract in Telecommunications*. Principal investigator: F. Pérez-González. Funded by: Televés S.A., 2004-2005. Amount: 72,000 Euro.
- ◇ *SEQRDOCS: Watermarking Technologies and 2-D Barcodes for Printed Document Security*. Principal investigator: F. Pérez-González. Funded by: Galician Regional Government, 2004-2007. Amount: 70,000 Euro.
- ◇ *ECRYPT: European Network of Excellence on Cryptology*. Principal investigator (UVIGO): F. Pérez-González. Funded by: European Union, 6th Frame Program, 2004-2008. Amount: 88,000 Euro.
- ◇ *Viability study of the creation of a research center in telecommunications in Galicia*. Principal investigator: F. Pérez-González. Funded by: Galician Regional Government, 2004-2005. Amount: 50,000.
- ◇ *IM3 Network: Medical Images and Multimodality Network*. Principal investigator (UVIGO): F. Pérez-González. Funded by: Spanish Ministry of Healthcare, 2003-2005. Amount: 6,300 EURO.

- ◇ *Transport Stream Filtering and PDA Interface*. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 2003-2003. Amount: 2,210 Euro.
- ◇ *AMULET: Multiresolution Analysis for Signal Processing and Digital Communications*. Co-principal investigators: N. González Prelcic and F. Pérez-González. Funded by: Spanish Science Foundation, 2002-2004. Amount: 127,400 US\$.
- ◇ *MPEG-2 In-Building Video Delivery System*. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 2002-2004. Amount: 62,800 US\$.
- ◇ *Design of a Wireless Distribution System for Digital Music*. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 2002-2004. Amount: 55,700 US\$.
- ◇ *CERTIMARK: Certification for Watermarking Techniques*. Co-principal investigator: F. Pérez-González. Funded by: European Union, IST Program, 2000-2002. Amount: 209,200 US\$.
- ◇ *Design of a Digital Radio Transmitter*. Principal investigator: F. Pérez-González. Funded by: Intelsis, S.A.; MIER S.A.; BTESA, 1999-2001. Amount: 196,950 US\$.
- ◇ *An Electronic System for Copyright Protection of Multimedia Information*. Principal investigator: F. Pérez-González. Funded by: Regional Government, 1999-2001. Amount: 66,230 US\$.
- ◇ *Analysis, Simulation and Validation of a Trial Digital Terrestrial Television Trial Network, Including the Design and Development of a COFDM Receiver*. Principal investigator: F. Pérez-González. Funded by: European Union Funds for Regional Development and National NSF, 1999-2001. Amount: 376,500 US\$.
- ◇ *Digital Terrestrial TV Network Planning for Mobile Receivers*. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 1999-2000. Amount: 94,200 US\$.
- ◇ *Authentication Protocols for a Wireless Smart Card*. Principal investigator: F. Pérez-González. Funded by: Motorola Inc., 1998. Amount: 8,000 US\$.
- ◇ *Adaptive Recursive Structures for Equalization in Digital Communications*. Co-principal investigators: F. Pérez-González and Juan E. Cousseau. Funded by: Institute for Iberoamerican Cooperation, 1998. Amount: 7,000 US\$.
- ◇ *Research and Proposal for the Development of Digital Television Throughout Galicia*. Principal investigator: F. Pérez-González. Funded by: Regional Government (Communications Ministry), 1997-1999. Amount: 42,000 US\$.
- ◇ *Hardware/Software Tools for Digital Television Systems*. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 1997-1999. Amount: 55,800 US\$.
- ◇ *Protocol Analysis and Specification for Domotic Applications*. Funded by: TELEVES S.A. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 1997-1998. Amount: 23,000 US\$.
- ◇ *Development of a C-code Simulator for the DVB-T Standard*. Principal investigator: F. Pérez-González. Funded by: LG Electronics, South Korea, 1997. Amount: 24,000 US\$.
- ◇ *Digital/Analog Transmodulator Design for SMATV Headends*. Funded by: TELEVES S.A. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 1997. Amount: 25,000 US\$.
- ◇ *Application of Natural Process Algorithms to Prediction, Decision and Communications*. Principal investigator: F. Pérez-González. Funded by: National Research Program on Information Technologies and Communications (PRONTIC), 1996-99. Amount: 85,000 US\$.
- ◇ *Antennas and Equalizers for the Digital Television Distribution Networks*. Co-principal investigators: F. Pérez-González and M. García-Sánchez. Funded by: Televés, S.A., 1995-96. Amount: 36,000 US\$.

- ◇ *Development of ASICS for Encryption and Decryption of Digital Television Signals*. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 1995-96. Amount: 68,000 US\$.
- ◇ *Robust Identification Algorithms and Adaptive Recursive Filters in Multipath Channels*. Principal investigator: F. Pérez-González. Funded by: Galician Regional Government 1995. Amount: 25,000 US\$.
- ◇ *MULTICOM 2000*. Co-principal investigators: D. Docampo and F. Pérez-González. Funded by: Northern Telecom, 1994-95. Amount: 50,000 US\$.
- ◇ *Design and Implementation of a QPSK Demodulator for Digital Broadcasting Satellite Television*. Principal investigator: F. Pérez-González. Funded by: Televés, S.A., 1994-95. Amount: 61,000 US\$.
- ◇ *Coding and Receiver Architectures for Digital Mobile Communications*. Principal investigator: D. Docampo. Funded by: Galician Regional Government, 1994-95. Amount: 35,000 US\$.
- ◇ *Characterization and Equalization of Channels in Point-Multipoint Systems*. Principal investigator: A. Artés. Funded by: Alcatel, 1994. Amount: 15,000 US\$.
- ◇ *Design of a Demodulator for a Contribution Link for HDTV*. Co-principal investigators: A. Artés and D. Docampo. Funded by: Televés, S.A., 1992-93. Amount: 125,000 US\$.
- ◇ *Analysis and Simulation of Adaptive Equalizing Procedures for Point to Multipoint Systems*. Co-principal investigators: A. Artés and D. Docampo. Funded by: Telettra, S.A., 1991-92. Amount: 30,000 US\$

Visited

Institutions:

- ◇ **July 2006-September 2006**, Electrical and Computer Engineering Department. University of New Mexico, U.S.A., visiting scholar.
- ◇ **February 1992-June 1992**, Electrical and Computer Engineering Department. University of New Mexico, U.S.A., granted by the Spanish National Research Plan.
- ◇ **February 1991-June 1991**, Electrical and Computer Engineering Department. University of New Mexico, U.S.A., granted by the Spanish National Research Plan.

Publications: ◇ **A. BOOKS**

12. Y.Q. Shi, H.J. Kim, F. Pérez-González and I. Echizen, Eds. *Digital Forensics and Watermarking. 13th International Workshop, IWDW 2015, Tokyo, Japan, October 7-10, 2015, Revised Selected Papers*, Springer-Verlag. Series: Lecture Notes in Computer Science, Vol. 9569, 2016.
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 3. D. Docampo, A.R. Figueiras-Vidal, F. Pérez-González, Eds. *Proceedings of the 4th Bayona Workshop on Intelligent Methods in Signal Processing and Communications*, Servicio de Publicaciones Universidad de Vigo, 1996.
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 1. D. Docampo, A.R. Figueiras-Vidal, F. Pérez-González, Eds. *Intelligent Methods in Signal Processing and Communications*. Birkhauser, Boston, 1997.
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◇ **D. REVIEWED CONFERENCE PAPERS**

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167. S. Oya, F. Pérez-González and C. Troncoso. *Filter Design for Delayed-based Anonymous Communications*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP17, New Orleans, LA, March 2017.
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157. P. Comesaña and F. Pérez-González. *The optimal attack to histogram-based forensic detectors is simple(x)*, IEEE International Workshop on Information Forensics and Security, WIFS 2014, Atlanta, GA, December 2014. (**Best Paper Award**)
156. G. Domínguez-Conde, P. Comesaña and F. Pérez-González. *A new look at ML step-size estimation for Scalar Costa Scheme data hiding*. IEEE International Conference on Image Processing, ICIP14, Paris, France, October 2014.
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139. J. Elices and F. Pérez-González and C. Troncoso. *A Least Squares Approach to User Profiling in Pool Mix-based Anonymous Communication Systems*. IEEE International Workshop on Information Forensics and Security, WIFS12, Tenerife, Spain, December 2012.
138. J. Elices and F. Pérez-González. *Fingerprinting a Flow of Messages to an Anonymous Server*. IEEE International Workshop on Information Forensics and Security, WIFS12, Tenerife, Spain, December 2012.
137. P. Comesaña and F. Pérez-González. *Multimedia operator chain topology and ordering estimation based on detection and information theoretic tools*. International Workshop on Digital-forensics and Watermarking, IWDW12, Shanghai, China, October 2012.
136. J.R. Troncoso-Pastoriza and F. Pérez-González. *Fully Homomorphic Faces*. IEEE International Conference on Image Processing, ICIP12, Orlando, USA, October 2012.
135. F. Pérez-González and C. Troncoso. *Understanding Statistical Disclosure: A Least Squares Approach*. Privacy Enhancing Technologies Symposium, PETS, 2012, Vigo, Spain, July 2012.
134. A. Rico-Alvariño, C. Mosquera and F. Pérez-González. *Overlay Spectrum Reuse in a Multicarrier Broadcast Network: Single Receiver Analysis*. 13th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cesme, Turkey, June 2012.
133. A. Rico-Alvariño, C. Mosquera and F. Pérez-González. *Overlay Spectrum Reuse in a Multicarrier Broadcast Network: Coverage Analysis*. 13th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cesme, Turkey, June 2012.

132. J. Elices, F. Pérez-González and C. Troncoso. *Fingerprinting TOR's Hidden Service Log Files Using a Timing Channel*. IEEE Intl. Workshop on Information Forensics and Security, WIFS'11, Foz de Iguazu, Brazil, November-December 2011. **Gold Award to Best Student Paper.**
131. D. Vázquez-Padín and F. Pérez-González. *Pre-filter Design for Forensic Resampling Estimation*. IEEE Intl. Workshop on Information Forensics and Security, WIFS'11, Foz de Iguazu, Brazil, November-December 2011.
130. A. Rico-Alvariño, C. Mosquera and F. Pérez-González. *On the co-existence of primary and secondary transmitters in a broadcast network*. 4th International Conference on Cognitive Radio and Advanced Spectrum Management, Barcelona, Spain, October 2011.
129. D. Vázquez-Padín and F. Pérez-González. *Exposing original and Duplicated Regions using SIFT features and Resampling Traces*. International Workshop on Digital-forensics and Watermarking, IWDW11, Atlantic City, New Jersey, October 2011.
128. P. Comesaña, F. Pérez-González and C.T. Abdallah. *Witsenhausen's Counterexample and its Links with Multimedia Security Problems*. International Workshop on Digital-forensics and Watermarking, IWDW11, Atlantic City, New Jersey, October 2011. **Best Paper Award.**
127. M. Maruenda, F. Pérez-González and S.J. Jayaweera. *A Subspace-Based Policy Enforcement Method in Dynamic Spectrum Leasing Schemes*. IEEE Intl. Conference on Communication Technology, ICCT11, Jinan, China, September 2011.
126. M. Scagliola, F. Pérez-González and P. Guccione. *A Dirty Paper Scheme for Hierarchical OFDM*. IEEE International Conference on Communications, ICC2011, Kyoto, Japan, June 2011.
125. J.R. Troncoso-Pastoriza and F. Pérez-González. *Efficient Protocols for Secure Adaptive Filtering*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP 2011, Prague, Czech Republic, May 2011.
124. P. Comesaña and F. Pérez-González. *Weber's Law-Based Side-Informed Data Hiding*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP 2011, Prague, Czech Republic, May 2011.
123. J. Rodríguez-Piñeiro, P. Comesaña-Alfaro and F. Pérez-González. *A New Method for Perspective Correction of Document Images*. IS&T/SPIE Electronic Imaging Conference, San Francisco, CA, January 2011.
122. J.R. Troncoso-Pastoriza and F. Pérez-González. *CryptoDSPs for Cloud Privacy*. Computational Intelligence and Software Engineering Conference, CISE 2010, Hong Kong, China, December 2010.
121. J.R. Troncoso-Pastoriza and F. Pérez-González. *Secure and Private Medical Clouds using Encrypted Processing*. Virtual Physiological Human Conference, VPH2010, Brussels, September 2010.
120. D. Vázquez-Padín, C. Mosquera and F. Pérez-González. *Two-Dimensional Statistical Test for the Presence of Almost Cyclostationarity on Images*. IEEE International Conference on Image Processing, ICIP10, Hong Kong, September 2010.
119. N. Dalgaard, C. Mosquera and F. Pérez-González. *On the Role of Differentiation for Resampling Detection*. IEEE International Conference on Image Processing, ICIP10, Hong Kong, September 2010.
118. B. Shebaro, F. Pérez-González and J. Crandall. *Leaving Timing Channel Fingerprints in Hidden Service Log Files*. Digital Forensic Research Workshop Annual Conference, DFRWS 2010, Portland, Oregon, USA, August 2010.
117. V. Santalla del Río, D. Franco-Vázquez, L. Abalde-Lima, F. Pérez-González, C.G. Christodoulou. *Statistical modeling of vegetation structures for scattering models*. 2010 IEEE APS/URSI Symposium, Toronto, Ontario, Canada, July 2010.

116. J.R. Troncoso-Pastoriza, D. González-Jiménez and F. Pérez-González. *A New Model for Gabor Coefficients' Magnitude in Face Recognition*, IEEE International Conference in Acoustics, Speech and Signal Processing, ICASSP2010, Dallas, TX, March 2010. .
115. M. Scagliola, F. Pérez-González and P. Guccione. *An Extended Analysis of Discrete Fourier Transform-Rational Dither Modulation for Non-white Hosts*, First IEEE International Workshop in Information Forensics and Security, WIFS09, London, England, December 2009.
114. J.R. Troncoso-Pastoriza, P. Comesaña, L. Pérez-Freire, and F. Pérez-González. *Video-surveillance and privacy: covering the two sides of the mirror with DRM*, ACM Workshop on Digital Rights Management, Chicago, IL, USA, November 2009.
113. J.R. Troncoso-Pastoriza, P. Comesaña, and F. Pérez-González. *Secure Direct and Iterative Protocols for Solving Systems of Linear Equations*, SPEED Workshop 2009, Lausanne, Switzerland, September 2009.
112. J.R. Troncoso-Pastoriza and F. Pérez-González. *Skewed Log-Stable Model for Natural Images Pixel Block-Variance*, IEEE International Conference on Image Processing, ICIP09, Cairo, Egypt, September 2009.
111. G. Domínguez-Conde, P. Comesaña-Alfaro and F. Pérez-González. *Performance Analysis of the Fridrich-Goljan Self-Embedding Authentication Method*, IEEE International Conference on Image Processing, ICIP09, Cairo, Egypt, September 2009.
110. D. Gonzalez-Jimenez, E. Argones-Rua, F. Perez-Gonzalez and J.L. Alba-Castro. *Modeling Magnitudes of Gabor Coefficients: the β -Rayleigh Distribution*, IEEE International Conference on Image Processing, ICIP09, Cairo, Egypt, September 2009
109. T.T. Quach, F. Pérez-González and G.L. Heileman. *Model-based steganalysis using invariant features*, Media Forensics and Security XI, San Jose, CA, USA, January 2009.
108. B. Mathon, P. Bas, F. Cayre and F. Pérez-González *Distortion Optimization of Model-Based Secure Embedding Schemes for Data-Hiding*, 10th Information Hiding Workshop, Santa Barbara, CA, U.S.A., May 2008.
107. F. Pérez-González, T.T. Quach, G. Heileman and C.T. Abdallah. *Benford's Law and Multimedia Signals*. Workshop on Applications of Benford's Law, Santa Fe, NM, USA, December 2007.
106. P. Comesaña and F. Pérez-González. *Dither Modulation in the Logarithmic Domain*. International Workshop on Digital Watermarking, IWDW'07, Guangzhou, China, December 2007 (**Nominated for the best paper award**)
105. P. Comesaña and F. Pérez-González. *On the Capacity of Stegosystems*. ACM Multimedia Security Workshop (MMSEC'07), Dallas, TX, USA, September 2007.
104. F. Pérez-González, G. Heileman and C.T. Abdallah. *Benford's Law in Image Processing*. IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.
103. D. González-Jiménez, F. Pérez-González, P. Comesaña, L. Pérez-Freire and J.L. Alba-Castro. *Modeling Gabor Coefficients Via Generalized Gaussian Distributions for Face Recognition*. IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.
102. G. Boato, F.G. B. De Natale, C. Fontanari and F. Pérez-González. *Statistical Analysis of a Linear Algebra Asymmetric Watermarking Scheme*. IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.
101. P. Comesaña and F. Pérez-González. *On a Watermarking Scheme in the Logarithmic Domain and its Perceptual Advantages*. IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.

100. F. Pérez-González, G. Heileman and C.T. Abdallah. *A Generalization of Benford's Law and Its Application to Images*. European Control Conference 2007, Kos, Greece, July 2007.
99. L. Pérez-Freire y F. Pérez-González. *Disclosing secrets in data-hiding and watermarking*. Third Wavila Challenge, Saint-Malo, France, June 2007.
98. L. Pérez-Freire and F. Pérez-González. *Exploiting security holes in lattice data hiding*. 7th Information Hiding Workshop. Saint-Malo, France, June 2007. **Best Young Researcher Paper Award**.
97. M. Barni, F. Pérez-González, P. Comesaña and G. Bartoli. *Putting Reproducible Signal Processing into Practice: a Case Study in Watermarking*. IEEE International Conference on Acoustics, Speech and Signal Processing, Hawai, USA, April 2007.
96. J.R. Troncoso and F. Pérez-González. *Efficient Noninteractive Zero-Knowledge Watermark Detector Robust to Sensitivity Attacks*. Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, Estados Unidos, January 2007.
95. F. Balado and F. Pérez-González. *On Distortion Measures Associated to Random Desynchronization Attacks*. Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007.
94. L. Pérez-Freire, P. Moulin and F. Pérez-González. *Security of Spread-Spectrum-Based Data Hiding*. Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007.
93. P. Comesaña, F. Balado y F. Pérez-González. *A Novel Interpretation of Content Authentication*. Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007.
92. P. Comesaña and F. Pérez-González. *Two Different Approaches for Attacking BOWS*. Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007
91. L. Pérez-Freire, F. Pérez-González and T. Furon. *On Achievable Security Levels for Lattice Data Hiding in the Known Message Attack Scenario*. 8th ACM Multimedia and Security Workshop. Geneva, Switzerland, September 2006.
90. J.R. Troncoso and F. Pérez-González. *Zero-Knowledge Watermark Detector Robust to Sensitivity Attacks*. 8th ACM Multimedia and Security Workshop. Geneva, Switzerland, September 2006.
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88. L. Pérez-Freire, F. Pérez-González and P. Comesaña. *Secret dither estimation in lattice-quantization data hiding: a set-membership approach*. Security, Steganography, and Watermarking of Multimedia Contents VIII, San Jose, California, USA, January 2006.
87. P. Comesaña, L. Pérez-Freire and F. Pérez-González. *Blind Newton Sensitivity Attack*, Security, Steganography, and Watermarking of Multimedia Contents VIII. San Jose, California, USA, January 2006.
86. F. Pérez-González, C. Mosquera, M. Álvarez and R. Lagendijk. *High-rate quantization data hiding robust to arbitrary linear filtering attacks*. Security, Steganography, and Watermarking of Multimedia Contents VIII, San Jose, California, USA, January 2006.
85. J.E. Vila-Forcén, S. Voloshynovskiy, O. Koval, F. Pérez-González and T. Pun. *Practical Data-Hiding: Additive Attacks Performance Analysis*. International Workshop on Digital Watermarking, IWDW'05, Siena, Italy, September 2005.

84. A. Abrardo, M. Barni, F. Pérez-González and C. Mosquera. *Trellis-Coded Rational Dither Modulation for Digital Watermarking*. International Workshop on Digital Watermarking, IWDW'05, Siena, Italy, September 2005.
83. P. Comesaña, L. Pérez-Freire and F. Pérez-González. *The Return of the Sensitivity Attack*. International Workshop on Digital Watermarking, IWDW'05, Siena, Italy, September 2005.
82. L. Pérez-Freire, P. Comesaña and F. Pérez-González. *Information-theoretic analysis of security in side-informed data hiding*. 7th Information Hiding Workshop, Barcelona, Spain, June 2005.
81. P. Comesaña, L. Pérez-Freire and F. Pérez-González. *Fundamentals of data-hiding Security and their application to Spread-Spectrum analysis*. 7th Information Hiding Workshop, Barcelona, Spain, June 2005.
80. L. Pérez-Freire, P. Comesaña and F. Pérez-González. *An information-theoretic framework for assessing security in practical watermarking and data hiding scenarios*. Invited paper at IEEE WIAMIS'05, Montreux, Switzerland, April 2005.
79. J.E. Vila-Forcén, S. Voloshynovskiy, F. Pérez-González, O. Koval and T. Pun. *Worst case additive attack against quantization-based watermarking techniques: joint study of probability of error and mutual information*, Security, Steganography, and Watermarking of Multimedia Contents VII, San Jose, California, USA, January 2005.
78. S. Voloshynovskiy, O. Koval, F. Pérez-González, T. Pun. *Robustness improvement of known-host-state watermarking using host statistics*. Security, Steganography, and Watermarking of Multimedia Contents VII, San Jose, California, USA, January 2005.
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76. P. Comesaña and F. Pérez-González. *Applying Erez and Ten Brink's Dirty Paper Codes to Data-Hiding*. Security, Steganography, and Watermarking of Multimedia Contents VII, San Jose, California, USA, January 2005.
75. L. Pérez-Freire, P. Comesaña and F. Pérez-González. *Detection in quantization-based watermarking: performance and security issues*. Security, Steganography, and Watermarking of Multimedia Contents VII, San Jose, California, USA, January 2005.
74. L. Pérez-Freire and F. Pérez-González. *Spread spectrum vs. quantization-based data-hiding: misconceptions and implications*. Security, Steganography, and Watermarking of Multimedia Contents VII, San Jose, California, USA, January 2005.
73. J. Vila-Forcén, S. Voloshynovskiy, O. Koval, F. Pérez-González and T. Pun. *Worst Case Additive Attack Against Quantization-Based Watermarking Techniques*. IEEE Workshop on Multimedia Signal Processing, MMSP04, Siena, Italy, September 2004.
72. L. Pérez-Freire, F. Pérez-González and S. Voloshynovskiy. *Revealing the True Achievable Rates of Scalar Costa Scheme*. IEEE Workshop on Multimedia Signal Processing, MMSP04, Siena, Italy, September 2004.
71. F. Pérez-González, M. Barni, A. Abrardo and C. Mosquera. *Rational Dither Modulation: a Novel Data-Hiding Method Robust to Value-Metric Scaling Attacks*. IEEE Workshop on Multimedia Signal Processing, MMSP04, Siena, Italy, September 2004.
70. O. Koval, S. Voloshynovskiy, F. Pérez-González, F. Deguillaume and T. Pun. *Quantization-based Watermarking Performance Improvement Using Host Statistics*. Multimedia and Security Workshop. Magdeburg, Germany, September 2004.
69. O. Koval, S. Voloshynovskiy, F. Pérez-González, F. Deguillaume and T. Pun. *Spread-spectrum Watermarking for Real Images: Is Everything So Hopeless?*. European Signal Processing Conference, EUSIPCO 2004, Vienna, Austria, September 2004.

68. C. Mosquera, R. López-Valcarce, D. Hurtado and F. Pérez-González. *Bias analysis and removal of a microphone array based road traffic speed Estimator*. EUSIPCO 2004, Vienna, Austria, September 2004.
67. F. Balado and F. Pérez-González. *Blind Turbo Decoding of Side-Informed Data Hiding Using Iterative Channel Estimation*. WIAMIS 2004, Lisbon, Portugal, April 2004.
66. F. Pérez-González and P. Comesaña. *Improved Binary Dither-Modulation with Perceptual Constraints*. WIAMIS 2004, Lisbon, Portugal, April 2004.
65. V. Licks y F. Pérez-González. *Performance Bound on Optimum Watermark Synchronizers*. SPIE Conf. on Security and Watermarking of Multimedia Contents VI. San José, CA, USA, January 2004.
64. F. Balado and F. Pérez-González. *Blind Iterative Decoding of Side-Informed Data Hiding Using the Expectation Maximization Algorithm*. SPIE Conf. on Security and Watermarking of Multimedia Contents VI. San José, USA, January 2004.
63. P. Comesaña and F. Pérez-González. *Quantifying Security Leaks in Spread Spectrum Data Hiding: A Game-Theoretic Approach*. SPIE Conf. on Security and Watermarking of Multimedia Contents VI. San José, USA, January 2004.
62. P. Comesaña, F. Pérez-González and F. Balado. *Optimal Data Hiding Strategies for Games with BER Payoffs*. 2nd International Workshop on Digital Watermarking, Seoul, Korea, October 2003.
61. F. Pérez-González. *The Importance of Aliasing in Structured Quantization Index Modulation Data Hiding*. 2nd International Workshop on Digital Watermarking (IWDW-03), Seoul, South Korea, October 2003.
60. V. Licks, F. Ourique, R. Jordan and F. Pérez-González. *The Effect of the Random Jitter Attack on the Bit Error Rate Performance of Spatial Domain Image Watermarking*. IEEE International Conference on Image Processing, ICIP-03, Barcelona, Spain, September 2003.
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58. F. Pérez-González, P. Comesaña and F. Balado. *Dither-Modulation Data Hiding with Distortion-Compensation: Exact Performance Analysis and an Improved Detector for JPEG Attacks*. IEEE International Conference on Image Processing, ICIP-03, Barcelona, Spain, September 2003.
57. N. Degara-Quintela and F. Pérez-González. *Visible encryption: Using paper as a secure channel*. SPIE Conf. on Security and Watermarking of Multimedia Contents V. Santa Clara, USA, January 2003. (**Nominated for the Best Paper Award**).
56. F. Balado and F. Pérez-González. *Hexagonal quantizers are not optimal for 2-D data hiding*. SPIE Conf. on Security and Watermarking of Multimedia Contents V. Santa Clara, USA, January 2003.
55. R. López-Valcarce and F. Pérez-González. *Automatic delay selection in blind channel equalization: a prewhitening + eigenvector approach*. 36th Asilomar Conf. on Signals, Systems and Computers. Pacific Grove, CA, USA, October 2002.
54. F. Pérez-González and F. Balado. *Nothing but a Kiss: A Novel and Accurate Approach to Assessing the Performance of the Multidimensional Dither Modulation Data Hiding Method*, Fifth Workshop on Data Hiding. Noordwijk, The Netherlands, October 2002.
53. F. Pérez-González and F. Balado. *Quantized Projection Data Hiding*, IEEE International Conference on Image Processing, ICIP-02. Rochester, NY, USA, September 2002.

52. F. Balado and F. Pérez-González. *Provably or Probably Robust Data Hiding?*, IEEE International Conference on Multimedia and Expo, ICME-02. Lausanne, Switzerland, August 2002.
51. F. Pérez-González and F. Balado *Improving Data-Hiding Performance by Using Quantization in a Projected Domain*, IEEE International Conference on Multimedia and Expo, ICME-02. Lausanne, Switzerland, August 2002.
50. F. Pérez-González, R. López-Valcarce and C. Mosquera. *Road Vehicle Speed Estimation from a Two-microphone Array*, IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP-02. Orlando, FL, USA, May 2002.
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45. R. López-Valcarce, F. Pérez-González. *On Blind Adaptive Algorithms for IIR Equalizers*, Proceedings of the 2000 Digital Signal Processing Workshop, Hunt, USA, October 2000.
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41. J.M. Lago and F. Pérez-González. *BER Performance of the DVB-T System in Time Invariant Channels*, Fifth Baiona Workshop on Emerging Technologies in Telecommunications. Baiona, Spain, September 1999.
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39. J.R. Hernández, M. Amado y F. Pérez-González. *Improving DCT-Domain Watermarking Extraction Using Generalized Gaussian Models*, IEEE-EURASIP Workshop on Nonlinear Signal and Image Processing. Antalya, Turkey, June 1999.
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37. R. López Valcarce, C. Mosquera and F. Pérez-González. *Hyperstable Polyphase Adaptive IIR Filters*, IEEE Int. Conf. on Acoustics, Speech and Signal Proc. Phoenix, U.S.A., March 1999.

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20. F. Pérez, C. Abdallah and D. Docampo. *Robustness Analysis of Polynomials with Linearly Correlated Uncertain Coefficients in l_p Normed Balls*. 33rd Conference on Decision and Control. Orlando, U.S.A. December, 1994.
19. S. Cruces and F. Pérez. *Mejora de Métodos de Estimación AR por Proyección Estabilizadora*. U.R.S.I. National Symposium. Las Palmas, Spain. September, 1994.
18. S. Cruces and F. Pérez. *Finding the Optimal Stable Projection for AR Systems: New Results and a Genetic Approach*. Fourth COST# 229 Workshop on Adaptive Methods and Emergent Techniques for Sig. Proc. and Communications. Vigo, Spain. September, 1994.
17. F. Pérez and C. Abdallah. *Filter Design to Guarantee Convergence of the Pseudolinear Regression IIR Algorithm*. IEEE Sixth DSP Workshop. Yosemite Natl. Park, U.S.A. September, 1994.
16. F. Pérez, D. Docampo and C. Abdallah. *Bounding the Frequency Response for Digital Transfer Functions: Results and Applications*. IEEE Sixth DSP Workshop. Yosemite Natl. Park, U.S.A. September, 1994.
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14. F. Pérez, C. Abdallah, P. Dorato, D. Docampo. *Algebraic Tests for Output Stabilizability*. 32nd IEEE Conference on Decision and Control. San Antonio, U.S.A.. December, 1993.
13. C. Abdallah, P. Dorato, F. Pérez and D. Docampo. *From Nyquist to Kharitonov: Synthesis of Robust Controllers*. Invited paper at the 12th World Congress of the International Federation of Automatic Control. Sydney, Australia. July, 1993.
12. F. Pérez, D. Docampo and C. Abdallah. *Robust Stability of Polynomials with Annular Uncertainties*. 12th World Congress of the International Federation on Automatic Control. Sydney, Australia. July, 1993.
11. F. Pérez, D. Docampo, A. Artés and C. Abdallah. *Feasibility Analysis of Channel Equalizers Using Kharitonov-type Results*. 1993 Conference on Acoustics, Speech and Signal Processing, ICASSP. Minneapolis, U.S.A.. April, 1993.
10. D. Docampo and F. Pérez. *Newton-type Predictors: A Z-transform-based Approach*. Proc. of the Conf. on Mathematics in Signal Processing. Warwick, England, December, 1992.
9. F. Pérez, C. Abdallah and D. Docampo. *Extreme-Point Stability Tests for Discrete-Time Polynomials*. 31st IEEE Conference on Decision and Control. Tucson, AZ, U.S.A., December, 1992.
8. F. Pérez, D. Docampo and C. Abdallah. *Los Polinomios de Kharitonov en el Estudio de la Estabilidad de Sistemas con Incertidumbre*. U.R.S.I. National Symposium. Málaga, Spain, September, 1992.
7. F. Pérez, D. Docampo and C. Abdallah. *New Extreme-Point Stability Results for Discrete-Time Polynomials*. 1992 American Control Conference. Chicago, U.S.A.. June, 1992.
6. D. Docampo, V. Abreu, F. Pérez and F. González. *A Deconvolution-based Efficient method for Generating the Excitation in Linear Predictive Speech Coding*. 1992 International Conference on Acoustics, Speech and Signal Processing (ICASSP). San Francisco, U.S.A.. March, 1992.
5. D. Docampo, F. González, V. Abreu and F. Pérez. *Generating the Excitation in Multipulse Coders: A Deconvolution Based Approach*. 6th European Signal Processing Conference. Brussels. August, 1992.

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3. E. Rodríguez Banga, M. Seoane, F. Pérez, L. Hernández and C. García Mateo. *Vocoder MBE: Un Nuevo Esquema de Codificación de Voz para los Sistemas de Comunicaciones Móviles*. Telecom, I+D. Madrid. November, 1991.
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1. A. Artés, F. Pérez González. *Eliminación del Sesgo en los Algoritmos para la Realización de la FFT Sobre el Procesador TMS320C25*. U.R.S.I. National Symposium. Vigo, Spain. September, 1990.

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14. José Luis Ledo Gavieiro, Miguel Ucha Cuevas, Carlos Mosquera, Fernando Pérez-González and Roberto López-Valcarce. *System for classification of Television Signals*, Spanish Patent ES2367745, July 24, 2015.
13. Juan Ramón Troncoso-Pastoriza and Fernando Pérez-González. *System for secure image recognition*, US Patent US8972472, March 3, 2015.
12. F. Pérez-González, P. Comesaña, L. Pérez-Freire and D. Pérez-Vieites. *Method and system for robust audio hashing*, European Patent EP2507790, January 22, 2014; US Patent US2014188487, March 15, 2016; Mexican Patent MX2013014245 Pending.
11. Juan Ramón Troncoso-Pastoriza and Fernando Pérez-González. *Method and apparatus for secure iterative processing*, US Patent US8837715, September 16, 2014.
10. Juan Ramón Troncoso-Pastoriza, Pedro Comesaña-Alfaro and Fernando Pérez-González. *Cryptographic system for performing secure iterative matrix inversions and solving systems of linear equations*, US Patent US2011060901 Pending.
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8. Juan Ramón Troncoso-Pastoriza, Pedro Comesaña-Alfaro and Fernando Pérez-González. *Cryptographic system for performing secure computations and signal processing directly on encrypted data in untrusted environments*, US Patent US8433925, April 30, 2013; European Patent EP2317689 Pending.
7. D. Fondo, F. Pérez-González, V. Santalla, C. Mosquera, L. Leyra and E. García-Couto. *Coverage prediction system with hardware cosimulator*, Spanish Patent ES2380459, March 27, 2013.
6. Fernando Pérez-González, Miguel Conde Balado, Jose Luis Ledo Gavieiro, Miguel Ucha Cuevas and Benito Manuel Paz Bugallo. *Impedance Mismatch Detection and Location System*, Spanish Patent ES2380532 Pending; European Patent EP 2328288 Pending.
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3. Jose Luis Fernandez Carnero, Santiago Rey Requejo, Fernando Pérez-González, Jorge Rocafort, Pedro Comesaña, Luis Pérez-Freire, Carlos Mosquera and Gabriel Domínguez-Conde. *Method for marking a digital image with a digital watermark*, Spanish Patent ES 2321363, January 12, 2010; Japanese Patent JP4944966, June 6, 2012; US Patent US8472528, June 25, 2013; German Patent DE 102007060345 Pending; European Patent EP 2122569 Pending.
2. Carlos Mosquera-Nartallo, Roberto López-Valcarce, Fernando Pérez-González and Alberto Prieto-Davila. *Signal Processing System for Spectrum Shaping*, Spanish Patent ES2297976, December 1, 2008; European Patent EP 1744455 Pending.
1. Carlos Mosquera-Nartallo, Roberto López-Valcarce, Fernando Pérez-González and Alberto Prieto-Davila. *Flat Spectrum Signal Processing System*, Spanish Patent ES2274659, August 1, 2008; European Patent EP 1555769 Pending.

Selected Entrepreneurial Experience:

- ◇ Co-founder of Bridge Mediatech, S.L. a start-up that develops second screen applications based on a proprietary automatic content recognition algorithm, 2010. Ourense Area. www.bridgemediatech.com
- ◇ Co-founder of Bit Oceans Research, S.L., a spin-off specialized on printed document security using digital signature techniques, 2008. Vigo Area. Now defunct.
- ◇ Co-founder of Optare Solutions, S.L., a telco company offering specialized solutions for operation support system (OSS) platforms, 2002. Vigo Area. www.optaresolutions.com
- ◇ Co-founder of Gsertel, S.L., focused on the design, development and manufacturing of radioelectric measuring equipment, 2001. Santiago Area. www.gsertel.com
- ◇ Co-founder of Shylex Telecommunications, S.L., offering telecommunications professional services and consulting, 2000. Vigo Area. Now defunct.

Other Professional Development:

- ◇ **Conferences:**
 - Organizer and Technical Program Chair, 4th Baiona Workshop on Intelligent Methods in Signal Processing and Communications, 1996.
 - Organizer and General Chair, 5th Baiona Workshop on Emerging Technologies in Telecommunications, 1999.
 - General Chair, 6th Baiona Workshop on Signal Processing in Communications, 2003.
 - General Co-chair, 7th International Workshop on Information Hiding, Barcelona, 2005.
 - General Co-chair, Workshop on Applications of Benford's Law, Santa Fe, NM, 2007.
 - Organizer, US-Spain Bilateral Scientific Workshop on Information Science and Related Technologies, Santa Fe, NM, 2010.
 - Steering Committee and Local Arrangements Chair, 4th International Workshop on Cognitive Information Processing, CIP 2012, Baiona, Spain, May 2012.
 - Steering Committee, 5th International Workshop on Cognitive Information Processing, CIP 2014, Copenhagen, Denmark.
 - Local Arrangements Chair, 12th Privacy Enhancing Technologies Symposium, PETS 2012, Vigo, Spain, July 2012.
 - General Co-chair, 4th IEEE International Workshop on Information Forensics and Security, WIFS 2012, Tenerife, Spain, December 2012.
 - General Co-chair, 7th ACM Information Hiding and Multimedia Security Workshop, IHMMSEC 16, Vigo, Spain, June 2016.

- Technical Program Co-Chair, International Workshop on Digital Forensics and Watermarking, Atlantic City, USA, 2011.
- Technical Program Co-Chair, International Workshop on Digital Forensics and Watermarking, Shanghai, China, 2012.
- Technical Program Co-Chair, IEEE Multimedia Signal Processing Workshop, MMSP 2013, Pula, Sardinia, 2013.
- Technical Program Co-Chair, International Workshop on Digital Forensics and Watermarking, Auckland, New Zealand, 2013.
- Technical Program Co-Chair, International Workshop on Digital Forensics and Watermarking, Taipei, Taiwan, 2014.
- Technical Program Co-Chair, International Workshop on Digital Forensics and Watermarking, Tokyo, Japan, 2015.
- Technical Program Co-Chair, 7th IEEE International Workshop on Information Forensics and Security, WIFS 2015, Rome, Italy, 2015.
- Technical Program Co-Chair, International Workshop on Digital Forensics and Watermarking, Beijing, China, 2016.
- Program Committee Member Workshop on Intelligent Communication Technologies, 1999.
- Program Committee Member First COST # 276 Workshop on Information and Knowledge Management for Integrated Media Communication, 2001.
- Program Committee Member International Workshop on Digital Watermarking, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015.
- Program Committee Member Learning'02 Conference.
- Program Committee Member European Signal Processing Conference, 2004, 2008.
- Program Committee Member International Workshop on Image Analysis for Multimedia Interactive Services, WIAMIS, 2004.
- Program Committee Member Conference on Communications and Multimedia Security, CMS, 2005, 2006.
- Program Committee Member International Workshop on Data Hiding, 2005.
- Program Committee Member IASTED International Conference on Signal and Image Processing, SIP, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012.
- Program Committee Member IEEE International Conference on Multimedia and Expo (ICME), 2005, 2011, 2012, 2013, 2014, 2015, 2016.
- Program Committee Member International Workshop on Information Security and Hiding, 2005.
- Program Committee Member IEEE International Conference on Image Processing, 2005.
- Program Committee Member SPIE Conference on Security, Steganography and Watermarking of Multimedia Contents, 2006, 2007, 2008.
- Program Committee Member Workshop on Multimedia Content Representation, Classification and Security, MRCS, 2006.
- Program Committee Member Second Wavila Challenge (WaCha-06).
- Program Committee Member ACM Multimedia and Security Workshop, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013.
- Program Committee Member 3rd International Conference on Intelligent Information Hiding and Multimedia Signal Processing, 2007, 2008.

- Program Committee Member Third Wavila Challenge (WaCha-07).
- Program Committee Member International Conference on Pattern Recognition, 2008, 2010.
- Program Committee Member ACM Digital Rights Management Workshop, 2008, 2009, 2010, 2011.
- Program Committee Member IEEE Workshop on Information Forensics and Security, 2010, 2011, 2012, 2013, 2014, 2015, 2016.
- Program Committee Member International Workshop on Forensics for Future Generation Communication Environments, 2010, 2011.
- Program Committee Member IASTED International Conference on Signal and Image Processing and Applications, 2011.
- Program Committee Member Symposium in Cybersecurity and Privacy, IEEE Global SIP, 2013.
- Program Committee Member ACM Workshop on Information Hiding and Multimedia Security (IHMMSEC), 2013, 2014, 2015, 2016, 2017.
- Program Committee Member ACM International Conference on Multimedia, 2014.
- Program Committee Member Digital Forensics Research Conference (DFRWS), 2014, 2015, 2016, 2017.
- Program Committee Member International Workshop on Information Hiding and its Criteria for evaluation (IWIHC), 2014.
- Program Committee Member International Symposium on Wireless Communication Systems (ISWCS), 2014, 2015, 2016.
- Program Committee Member World Conference on Complex Systems (WCCS), 2014.
- Program Committee Member IEEE Multimedia Signal Processing Workshop (MMSP), 2014.
- Program Committee Member, IEEE Workshop on Statistical Signal Processing (SSP), 2016.
- Program Committee Member, Advanced Concepts for Intelligent Vision Systems (ACIVS), 2016.
- Program Committee Member IARIA International Conference on Advances in Cyber-Technologies and Cyber-Systems (CYBER), 2016.
- Program Committee Member, International Workshop on Biometrics and Forensics (IWBF), 2017.
- Program Committee Member, Annual International Carnahan Conference on Security Technology (ICCST), 2017.
- Program Committee Member IEEE International Conference On Trust, Security And Privacy In Computing And Communications (IEEE Trustcom), 2017.
- Program Committee Member, Central European Cybersecurity Conference (CEC), 2017.
- Program Committee Member, Thyrrhenian Workshop on Digital Communications, 2017.
- Program Committee Member and Area Chair (Biometrics), IEEE International Conference on Image Processing, 2011.
- Program Committee Member and Area Chair (Watermarking), IEEE International Conference on Image Processing, 2012, 2016.
- International Adviser Committee, Midwest Symposium on Circuits and Systems (MWSCAS), 2008.

- Special Session Organizer, International Workshop on Digital Watermarking, 2005.
- Special Session Organizer, SPIE Conference on Security, Steganography and Watermarking of Multimedia Contents, 2005.
- Special Session Organizer, SPIE Conference on Security, Steganography and Watermarking of Multimedia Contents, 2006.
- Special Session Organizer, CIP 2012.
- Special Session Organizer, IEEE ICASSP, 2007, 2013.

◇ **Contests:**

- First Break Our Watermarking System (BOWS) Contest, 2006. Steering Committee.
<http://lci.det.unifi.it/BOWS/>

◇ **Journal Associate Editor:**

- IEEE Signal Processing Letters, 2005 -2009
- Springer LNCS Transactions on Data Hiding and Multimedia Security, 2005 - Present
- IEEE Trans. on Information Forensics and Security 2006 - 2010
- EURASIP Journal on Information Security 2006 - Present

◇ **Journal Reviewer:**

- Automatica
- Signal Processing (EURASIP)
- Signal Processing Magazine
- IEEE Trans. on Circuits and Systems
- Multidimensional Systems and Signal Processing
- International Journal of Control
- IEEE Trans. on Automatic Control
- IEEE Trans. on Circuits and Systems II
- IEEE Trans. on Signal Processing
- IEEE Trans. on Image Processing
- IEEE Trans. on Communications
- IEEE Signal Processing Letters
- EURASIP Journal on Applied Signal Processing
- IEEE Communications Magazine
- IEEE Trans. on Systems, Man and Cybernetics
- IEE Proceedings on Vision, Image and Signal Processing
- Electronic Letters on Computer Vision and Image Analysis
- Journal on Electronic Imaging
- Journal of Communication and Networks
- International Journal of Robust and Nonlinear Control
- Optical Engineering
- IEEE Trans. on Multimedia
- Knowledge and Information Systems Journal
- ACM Surveys on Computing
- IEEE Trans. on Information Forensics and Security
- IEE Proc. Information Security

- IEEE Transactions on Dependable and Secure Computing
 - IEEE Communications Letters
 - IEEE Trans. on Information Theory.
 - Computational Intelligence.
 - Signal Image and Video Processing.
 - IEEE Sensors Journal.
 - IEEE Trans. Vehicular Technology.
 - ACM Trans. on Multimedia Computing, Communications and Applications.
- ◇ **Book Reviewer:**
- Marcel Dekker, New York.
- ◇ **Research Proposal Reviewer:**
- Spanish National Science Foundation
 - Madrid Regional Government
 - Technical University of Madrid
 - Technology Foundation STW (The Netherlands)
 - Italian Ministry for Education University and Research (MUIR)
 - Spanish Ministry of Industry
 - Spanish Ministry of Education
 - Flanders Science Foundation.
 - Spanish Research, Development and Innovation Accreditation Agency.
 - Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR).
 - Portuguese National Science and Technology Foundation (FCT).
 - National Center for Science and Tecnology Evaluation, Kazakhstan.
 - Qatar National Research Fund (QNRF).
- ◇ **CV Reviewer:**
- Princess Sumaya University for Technology, Jordan.
- ◇ **Panels:**
- Panel Chair. Joint Activities Program (approximate budget 32 million Euros), Portuguese Science and Technology Foundation, 2016.
 - Panelist at IEEE Signal Processing Society Italy Chapter Meeting, WIFS Rome, 2015.
 - Panel Member. Research Project Evaluation, Portuguese Science and Technology Foundation, 2013.
 - Panel Chair. Spanish System of Science and Technology Evaluation Panel. Electronics and Communications Area. 2008.
 - Panel Chair. Research Project Evaluation, Electronics and Communications Area, Spanish Ministry of Science and Innovation, 2007, 2008 and 2009. Around 150 proposals evaluated every year.
 - Panelist on “What’s the Future for Watermarking?”, Signal Processing Forum, IEEE Signal Processing Magazine, vol. 20, no.5, pp. 55-59, September 2003 and vol. 20, no. 6, pp. 53-57, November 2003.
- ◇ **Committees:**

- Elected Member of the IEEE Signal Processing Society, Information Forensics and Security Technical Committee, 2010-2012, 2015-Present.
- Associate Member, IEEE Signal Processing Society, Information Forensics and Security Technical Committee, 2013.
- Member of the Executive Committee of the Galician Technology Platform on ICTs, 2007-2008.
- Member Academic Curriculum Board for the Technical School of Telecommunications Engineering, University of Vigo, 2003-2004.
- Member Internal Evaluation Committee of the Communication Technologies Dept., University of Vigo, 2001-2002.
- Chair, Activities Committee of the Higher Technical School of Telecommunications, University of Vigo, 2000-2001.
- Member, Board of Trustees of the Galician University-Industry Foundation, 1998-2002.
- Chair, PhD Program, Communication Technologies Dept., University of Vigo, 1997-2000.
- Elected Member, Standing Committee of the Communications Technologies Dept., University of Vigo, 1997-1998.