

# Fernando Pérez-González

Universidad de Vigo  
Departamento de Teoría de la Señal y  
Comunicaciones  
E.T.S.E. Telecomunicacion  
Campus Universitario  
36310 Vigo-SPAIN  
Tel: +34-986-812124  
FAX: +34-986-812116  
fperez@gts.tsc.uvigo.es  
<http://www.gts.tsc.uvigo.es/~fperez>



**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:**

- ◇ **October 2017-Present**, Editor in Chief, EURASIP Journal on Information Security.
- ◇ **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.
  - ◇ A. Pedrouzo-Ulloa, M. Masciopinto, J.R. Troncoso and F. Pérez-González. *Camera Attribution Forensic Analyzer in the Encrypted Domain*. 10th IEEE International Workshop on Information Forensics and Security, WIFS 2018, Hong-Kong, December 2018. Best Paper Award.
  - ◇ 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: 4641, h-index: 30, i10-index: 86.
- ◇ **Scopus (excluding self-citations)**. Total citations: 2089, h-index: 21.

**Short Courses:**

- ◇ **Location Privacy: Threats and Opportunities**, with Simón Oya. Half-day Tutorial at IEEE on Information Forensics and Security (WIFS), Hong-Kong, 2018.
- ◇ **Grissom in Awe: The CSI Effect and Media Forensics**, IEEE/EURASIP Summer School on Signal Processing, Cavalese, Italy, 2016.
- ◇ **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:**

- ◇ **Backstabbing Image Forensics**, Keynote at 19th International Conference on Image Analysis and Processing (ICIAP), Catania, Sicilia, Italy, 2017.
- ◇ **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.
- ◇ **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**, Commencement 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 Superieure 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:**

- ◇ **MSM-IRMAS: Information Rights Management Advanced System**. Principal Investigator: Fernando Pérez-González. Funded by: Gradient, 2017. Amount: 55,400 Euro.

- ◇ Facial Anti-Spoofing. Principal Investigator: Fernando Pérez-González. Funded by: Gradient, 2017. Amount: 4,600 Euro.
- ◇ *Competitive Reference Groups*. Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2017. Amount: 400,000 Euro.
- ◇ *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, INNPACTO 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.
- ◇ *SAFE CLOUD: 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**

13. Y.Q. Shi, H.J. Kim, F. Pérez-González, F. Liu, Eds. *Digital Forensics and Watermarking - 15th International Workshop, IWDW 2016, Beijing, China, September 17-19, 2016, Revised Selected Papers*, Springer-Verlag. Series: Lecture Notes in Computer Science Vol. 10082, 2017
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.
11. Y.Q. Shi, H.J. Kim, F. Pérez-González and C.N. Yang, Eds. *Digital Forensics and Watermarking. 13th International Workshop, IWDW 2014, Taiwan, Taipei, October 7-10, 2014, Revised Selected Papers*, Springer-Verlag. Series: Lecture Notes in Computer Science, Vol. 9023, 2015.
10. Y.Q. Shi, H.J. Kim and F. Pérez-González, Eds. *Digital Forensics and Watermarking. 12th International Workshop, IWDW 2013 Auckland, New Zealand, October 1-4, 2013, Revised Selected Papers*, Springer-Verlag. Series: Lecture Notes in Computer Science, Vol. 8389, 2014.
9. Y.Q. Shi, H.J. Kim and F. Pérez-González, Eds. *Digital Forensics and Watermarking. 11th International Workshop, IWDW 2012 Shanghai, China, October 31- November 2, 2012, Revised Selected Papers*, Springer-Verlag. Series: Lecture Notes in Computer Science, Vol. 7809, 2013.
8. Y.Q. Shi, H.J. Kim and F. Pérez-González, Eds. *Digital Forensics and Watermarking. 10th International Workshop, IWDW 2011 Atlantic City, NJ, USA, October 23-26, 2011, Revised Selected Papers*, Springer-Verlag. Series: Lecture Notes in Computer Science, Vol. 7128, 2012.
7. A. Artés, F. Pérez-González et al. *Digital Communications (in Spanish)*, Pearson, 2007.
6. M. Barni, J. Herrera Joancomartí, S. Katzenbeisser and F. Pérez-González, Eds. *Information Hiding. 7th International Workshop, IH 2005, Barcelona, Spain, June 6-8, 2005, Revised Selected Papers*, Springer-Verlag. Series: Lecture Notes in Computer Science, Vol. 3727, 2005.
5. C. Mosquera and F. Pérez-González, Eds. *Proceedings of the Sixth Baiona Workshop on Signal Processing in Communications*, Servicio de Publicaciones Universidad de Vigo, 2003.
4. F. Pérez-González, A.R. Figueiras-Vidal and N. González-Prelcic, Eds. *Proceedings of the Fifth Baiona Workshop on Emerging Technologies in Telecommunications*, Servicio de Publicaciones Universidad de Vigo, 1999.
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.
2. D. Docampo, V. Abreu, C. Mosquera, J.L. Alba, O. Márquez and F. Pérez-González. *Discrete-time Signals and Systems (in Spanish)*. Tórculo Ediciones, Santiago, Spain, 1998.
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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4. S. Voloshynovskiy, T. Pun, J. Fridrich, F. Pérez-González and N. Memon, *Special Issue on Security of Data Hiding Technologies*. Signal Processing, 2003.
3. F. Pérez-González, *Special Issue on Signal Processing Techniques for Emerging Telecommunications Applications*. Signal Processing Journal, vol. 81, no. 8, 2001.
2. M. Barni, F. Bartolini, I. Cox, J.R. Hernández and F. Pérez-González, Guest Editors, *Feature Topic on Digital Watermarking: A Communications Perspective*. IEEE Communications Magazine, vol. 39, no. 8, 2001.
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◇ **C. REFEREED JOURNALS AND BOOK CHAPTERS**

68. L. Bondi, P. Bestagini, F. Pérez-González and S. Tubaro. *Improving PRNU Compression through Preprocessing, Quantization and Coding*, IEEE Trans. on Information Forensics and Security, accepted June 2018.
67. M. Masciopinto, P. Comesaña and F. Pérez-González. *IPTV Streaming Classification*, book chapter in S.M. Fati, S. Azad and A.K. Pathan (Eds.), *IPTV Delivery Networks: Next Generation Architectures for Live and Video-on-Demand Services*, Wiley, pp. 25-64, May 2018.
66. C. Pasquini, G. Boato and F. Pérez-González. *Statistical Detection of JPEG Traces in Digital Images in Uncompressed Formats*, IEEE Trans. on Information Forensics and Security, vol. 12, no. 12, pp. 2890-2905, December 2017.
65. D. Vázquez-Padín, F. Pérez-González and P. Comesaña-Alfaro. *A Random Matrix Approach to the Forensic Analysis of Upscaled Images*, IEEE Trans. on Information Forensics and Security, vol. 12, no. 9, pp. 2115-2130, September 2017.
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45. J.E. Vila-Forcen, S. Voloshynovskiy, O. Koval, F. Pérez-González and T. Pun. *Quantization-Based Methods: Additive Attacks Performance Analysis*. Transactions on Data Hiding and Multimedia Security III, 4920:70-90, 2008.
44. L. Pérez-Freire and F. Pérez-González. *Security of lattice-based data hiding against the Watermarked Only Attack*. IEEE Trans. on Information Forensics and Security, vol. 3, no. 4, pp. 593-610, 2009.
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41. P. Comesaña and Fernando Pérez-González. *Breaking the BOWS Watermarking System: Key Guessing and Sensitivity Attacks*. EURASIP Journal on Information Security, 2007.

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21. C. Mosquera, F. Pérez-González, *Algebraic solution to the robust SPR problem for two polynomials*. Automatica vol. 37, pp. 757-762, 2001.
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◇ **D. REVIEWED CONFERENCE PAPERS**

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175. M. Namazi, C. Eryonucu, E. Ayday and F. Pérez-González. *Dynamic Attribute-Based Privacy-Preserving Genomic Susceptibility Testing*. 34th Annual ACM Symposium on Applied Computing, SAC 2019, Limassol, Cyprus, April 2019.
174. A. Pedrouzo-Ulloa, M. Masciopinto, J.R. Troncoso and F. Pérez-González. *Camera Attribution Forensic Analyzer in the Encrypted Domain*. IEEE International Workshop on Information Forensics and Security, WIFS 2018, Hong-Kong, December 2018. (**Best Paper Award**)
173. M. Masciopinto and F. Pérez-González. *Putting the PRNU Model in Reverse Gear: Findings with Synthetic Signals*. 26th European Signal Processing Conference, EU-SIPCO'18, Rome, Italy, September 2018.
172. L. Bondi, F. Pérez-González, P. Bestagini and S. Tubaro. *Design of Projection Matrices for PRNU Compression*. IEEE International Workshop on Information Forensics and Security, WIFS 2017, Rennes, France, December 2017.
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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.
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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.
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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**)
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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, Hawaii, USA, April 2007.
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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.
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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.
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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.
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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.
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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.
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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.
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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.
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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.
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38. C. Mosquera, J.A. Gómez, F. Pérez-González and M. Sobreira. *IIR Adaptive Filters for Active Noise Control*, 6th International Congress on Sound and Vibration. Copenhagen, Denmark, June 1999.
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.
36. J.R. Hernández and F. Pérez-González. *Improving DCT-Domain Watermarking Extraction Using Generalized Gaussian Models*, COST #254 Workshop on Intelligent Communications and Multimedia Terminals. Ljubljana, Slovenia, November 1998.
35. J.R. Hernández and F. Pérez-González. *Coding and Synchronization: A Boost and a Bottleneck for the Development of Image Watermarking*, COST #254 workshop on Intelligent Communications. L' Aquila, Italy, June 1998.
34. N. González-Prelcic, F. Pérez-González, and A.B. Mosquera-González. *A Flexible Structure for Wavelet Packet-Based Subband Adaptive Equalization*, IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis. Pittsburgh, USA, November 1998.
33. C. Mosquera, and F. Pérez. *An Approach to the Robust SPR Problem Through Interpolation and Avoidance: Connections with the Robust Stability Problem*, American Control Conference. Philadelphia, U.S.A., June 1998.
32. C. Mosquera, and F. Pérez. *On the Strengthened Robust SPR Problem for Discrete-Time Systems*, American Control Conference. Philadelphia, U.S.A., June 1998.
31. C. Mosquera, J. Gómez, and F. Pérez-González. *Filtered Error Adaptive IIR Algorithms and their Application to Active Noise Control*, IEEE Int. Conf. on Acoustics, Speech and Signal Proc. Seattle, Washington, USA, May, 1998.
30. J. R. Hernández, F. Pérez-González, J.M. Rodríguez. *The Impact of Channel Coding on the Performance of Spatial Watermarking for Copyright Protection*, IEEE Int. Conf. on Acoustics, Speech and Signal Proc. Seattle, Washington, USA, May, 1998.
29. J. R. Hernández, F. Pérez-González. *Shedding More Light on Image Watermarks*, Second International Information Hiding Workshop. Portland, Oregon, USA, April, 1998.
28. J. R. Hernández, F. Pérez-González, J. M. Rodríguez, *Data Hiding for Copyright Protection of Still Images*, Second COST # 254 Workshop on Emerging Techniques for Communications Terminals. Toulouse, France, July, 1997.
27. N. González, O. Márquez, D. Docampo, V. Abreu, F. Pérez and E. R. Banga. *Randex, a bridge over the Internet*. First COST# 254 Meeting, Budapest, Hungary, Feb. 1997.
26. C. Mosquera and F. Pérez. *The Simultaneous Strict Positive Real Problem: Similarities with the Simultaneous Stability Problem and Applications in Adaptive Recursive Algorithms*. Fourth IMA Conference on Mathematics in Signal Processing. Warwick, England, December, 1996.
25. F. Pérez and C. Mosquera. *Characterization and Algebraic Solution to the Extreme-Point Robust SPR Problem*. 13th World Congress of the International Federation of Automatic Control. San Francisco, U.S.A. July, 1996.
24. R. López-Valcarce and F. Pérez-González. *The Master-Slave Family of System Identification Algorithms: Theoretical Results and New Structures*. 13th World Congress of the International Federation of Automatic Control. San Francisco, U.S.A., July, 1996.

23. C. Mosquera and F. Pérez. *On the Robust SPR Condition in Adaptive Recursive Schemes*. 4th Bayona Workshop in Intelligent Methods for Signal Processing and Communications. Vigo, Spain, June, 1996.
22. F. Pérez and C. Mosquera. *Algebraic LTI Filter Synthesis for Simultaneously Making a Convex Combination of Discrete-Time Plants SPR*. 34th Conference on Decision and Control. New Orleans, U.S.A., December, 1995.
21. F. Pérez and C. Abdallah. *Phase-convex Arcs in Root Space and Their Application to Robust SPR Problems*. 33rd Conference on Decision and Control. Orlando, U.S.A. December, 1994.
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 Pseudo-linear 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.
15. S. Cruces, F. Pérez and D. Docampo. *Determination of the Optimal Stable Projection for AR Systems*. Third COST# 229 Workshop on Adaptive Methods and Emergent Techniques for Sig. Proc. and Communications. Ljubljana, Slovenia. April, 1994.
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.
4. D. Docampo, F. Pérez, J.R. Fernández and C. Abdallah. *Some Robust Stability Results Concerning Sparse Predictors*. 6th European Signal Processing Conference. Brussels. August, 1992.
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.
2. V. Abreu, D. Docampo, F. Pérez and F. González. *Análisis de un nuevo esquema de codificación multipulso de voz*. U.R.S.I. National Symposium. Cáceres, Spain. September, 1991.
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.
9. Juan Ramón Troncoso-Pastoriza, Pedro Comesaña-Alfaro and Fernando Pérez-González. *Cryptographic system for performing secure iterative computations and signal processing directly on encrypted data in untrusted environments*, US Patent US8843762, September 23, 2014.
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.

5. José Luis Ledo Gavieiro, José Rey Juncal, Gabriel Loyácono Pardo, Miguel Ucha Cuevas, Fernando Pérez-González, Carlos Mosquera Nartallo and Roberto López-Valcarce. *Measurement Equipment for Radio and/or Television*, Spanish Patent ES 2341206, May 3, 2012; European Patent EP 2128634 Pending.
4. Fernando Pérez-González and Alberto Malvido. *Document Integrity Verification Procedure*, Spanish Patent ES 2342995, September 20, 2011; US Patent US8094889, January 10, 2012; European Patent EP2243104, May 16, 2012.
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](http://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](http://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](http://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 (EUSIPCO), 2004, 2008, 2018.
- 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, 2017, 2018.
- 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, 2018.
- Program Committee Member ACM International on Multimedia, 2014.
- Program Committee Member Digital Forensics Research Conference (DFRWS), 2014, 2015, 2016, 2017, 2018.
- 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, 2017.
- 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, 2017.
- 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, IEEE Statistical Signal Processing Workshop (SSP), 2018.
- 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.
- Program Committee Member and Area Chair (Information Forensics and Security), IEEE International Conference on Image Processing, 2018
- International Adviser Committee, Midwest Symposium on Circuits and Systems (MWSCAS), 2008.
- Special Session Organizer, EUSIPCO 2018.
- Special Session Organizer, IEEE ICASSP, 2007, 2013.
- Special Session Organizer, CIP 2012.
- Special Session Organizer, SPIE Conference on Security, Steganography and Watermarking of Multimedia Contents, 2005, 2006.
- Special Session Organizer, International Workshop on Digital Watermarking, 2005.
- ◇ **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.
  - Elsevier Journal of Network and Computer Applications.
- ◇ **Book Reviewer:**
- Marcel Dekker, New York.
- ◇ **Research Proposal Reviewer:**
- Spanish National Science Foundation
  - Madrid Regional Government
  - Castilla and Leon 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.