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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:

- ◇ **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:**
- ◇ 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.
 - ◇ 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: 5524, h-index: 35, i10-index: 100.
- ◇ **Scopus (excluding self-citations)**. Total citations: 2538, h-index: 24.

Short Courses:

- ◇ **Digital Image and Video Forensic Science**, Cyberwall Academy, European Cyber-crime Training and Education Group and Spanish National Police Academy, 2021.
- ◇ **5G Physical Layer**, Specialization Course on 5G, University of Vigo, 2020.
- ◇ **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:**

- ◇ **A Walk on the Wild Side of Camera Attribution**, Keynote at 1st MultiMedia FORensics in the WILD (MMForWILD) 2020 Workshop, organized in conjunction with ICPR2020 The 25th International Conference on Pattern Recognition, Milan, Italy, 2021
- ◇ **Location Technologies for the Pandemics**, Webinar at University of Santiago de Compostela, Spain, 2020.
- ◇ **Privacy and Utility in Contact Tracing Apps**, Webinar at Real Academia Galega de Ciencias, 2020.
- ◇ **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 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, Taejeon, 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**
 13. Mina Namaziesfanjani. Dissertation: *Secure Signal Processing for Genomic Data Protection*, Co-advised with Erman Ayday, 2020.
 12. Alberto Pedrouzo-Ulloa. Dissertation: *Homomorphic Lattice Cryptosystems for Secure Signal Processing*. Co-advised with Juan R. Troncoso-Pastoriza, 2019.
 11. Simón Oya. Dissertation: *A Statistical Approach to the Design of Privacy Preserving Services*. Co-advised with Carmela Troncoso, 2019.
 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:**

- ◇ *Performance Analysis and Evaluation for the Production System of the Galician Public Television*. Principal Investigators: Fernando Pérez-González and Domingo Docampo. Funded by: Galician Public Television, 2020. Amount: 13,700 Euro.
- ◇ *Stability Analysis and Evaluation for the Production System of the Galician Public Television*. Principal Investigators: Fernando Pérez-González and Domingo Docampo. Funded by: Galician Public Television, 2020. Amount: 15,000 Euro.
- ◇ *AIDFORK: Lifting and Transferring an Analytic Media Forensic Kit*. Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), IGNICIA Proof of Concept Call, 2019. Amount: 360,000 Euro.
- ◇ *NOMINATE: Information Rights Management Advanced System 2*. Principal Investigator: Fernando Pérez-González. Funded by: Gradient, 2018. Amount: 20,000 Euro.
- ◇ *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/Foto 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.

◇ **B. GUEST-EDITED JOURNALS**

5. Y. Xiang, J. Huang, F. Pérez-González, G. Hua and H. Malik, *Latest Advances and Emerging Applications of Data Hiding*. IEEE Access, 2016.
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.
1. F. Pérez-González, Guest Editor, *Special Section on Applications of Signal Processing to Communications*, Signal Processing, 1997.

◇ **C. REFEREED JOURNALS AND BOOK CHAPTERS**

71. B. Cortiñas-Lorenzo and F. Pérez-González, *Adam and the Ants: On the Influence of the Optimization Algorithm on the Detectability of DNN Watermarks*, Entropy vol. 22, no. 12: 1379, December 2020. <https://doi.org/10.3390/e22121379>
70. S. Fernández-Menduiña and F. Pérez-González. *Temporal Localization of Non-Static Digital Videos Using the Electrical Network Frequency*, IEEE Signal Processing Letters, vol. 27, pp. 745-749, April 2020.
69. D. Vázquez-Padín, M. Fontani, D. Shullani, F. Pérez-González, A. Piva and M. Barni. *Video Integrity Verification and GOP Size Estimation via Generalized Variation of Prediction Footprint*, IEEE Transactions on Information Forensics and Security, vol. 15, no. 1, pp. 1815-1830, January 2020.
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, vol. 14, no. 3, pp. 608-620, March 2019.
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.

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64. A. Pedrouzo-Ulloa, J.R. Troncoso-Pastoriza and F. Pérez-González. *Number Theoretic Transforms for Secure Signal Processing*, IEEE Trans. on Information Forensics and Security, vol. 12, no. 5, pp. 1125-1140, May 2017.
63. B. Tondi, P. Comesaña-Alfaro, F. Pérez-González and M. Barni. *Smart Detection of Line-Search Oracle Attacks*, IEEE Trans. on Information Forensics and Security, vol. 12, no. 3, pp. 588-603, March 2017.
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61. S. Oya, F. Pérez-González and C. Troncoso. *Design of Pool Mixes Against Profiling Attacks in Real Conditions*, IEEE/ACM Transactions on Networking, vol. 24, no. 6, pp. 3662-3675, December 2016.
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59. F. Pérez-González, T. Tach-Quach, C.T. Abdallah, G. Heileman and S. J. Miller. *Application of Benford's Law to Images*, book chapter in S. Miller (Ed.), *Theory and Applications of Benford's Law*, Princeton University Press, Princeton, NJ, pp. 332-363, May 2015.
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56. J.R. Troncoso-Pastoriza, D. González-Jiménez and F. Pérez-González. *Fully Private Non-interactive Face Verification*, IEEE Transactions on Information Forensics and Security, vol. 8, no. 7, pp. 1101-1114, July 2013.
55. Z. Erkin, J.R. Troncoso-Pastoriza, I. Lagendijk and F. Pérez-González. *An Overview of Privacy-Preserving Data Aggregation in Smart Metering Systems*, IEEE Signal Processing Magazine, vol. 30, no. 2, 2013, pp. 75-86, March 2013.
54. J.R. Troncoso-Pastoriza and F. Pérez-González. *Secure Signal Processing in the Cloud*, IEEE Signal Processing Magazine, vol. 30, no. 2, 2013, pp. 29-41, March 2013.
53. A. Rico-Alvariño, C. Mosquera and F. Pérez-González. *Overlay Cognitive Transmission in a Multicarrier Broadcast Network with Dominant Line of Sight Reception*, IEEE Trans. on Wireless Communications, vol. 11, no. 11, pp. 4128-4139, November 2012.
52. R. López-Valcarce, E. Antonio-Rodríguez, C. Mosquera and F. Pérez-González. *An Adaptive Feedback Canceller for Full-Duplex Relays Based on Spectrum Shaping*, IEEE Journal Selected Areas in Communications, vol. 30, no. 8, pp. 1566-1577, September 2012.

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50. J.R. Troncoso-Pastoriza and F. Pérez-González. *Secure Adaptive Filtering*. IEEE Transactions on Information Forensics and Security, vol. 6, no. 2, pp. 469-485, 2011.
49. B. Shebaro, F. Pérez-González and J. Crandall. *Leaving timing-channel fingerprints in hidden service log files*. Elsevier Digital Investigation, vol. 7, pp. S104-S113, 2010. doi:10.1016/j.diin.2010.05.013.
48. M. Scagliola, F. Pérez-González and P. Guccione. *High-rate data-hiding robust to linear filtering for colored hosts*. EURASIP Journal on Information Security, vol. 2009, Article ID 914937, 14 pages, 2009. doi:10.1155/2009/914937.
47. G. Domínguez-Conde, P. Comesaña and F. Pérez-González. *Performance analysis of the Fridrich-Goljan Self-Embedding Authentication Method*. IEEE Transactions on Information Forensics and Security, vol. 4, no. 3, pp. 570-577, 2009.
46. L. Pérez-Freire and F. Pérez-González. *Spread spectrum watermarking security*. IEEE Transactions on Information Forensics and Security, vol. 4, no. 1, pp. 2-24, 2009.
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.
43. F. Pérez-González and C. Mosquera. *Quantization-based data-hiding robust to linear time-invariant filtering*. IEEE Trans. on Information Forensics and Security, vol. 3, no. 2, pp. 137-152, 2008.
42. J.R. Troncoso-Pastoriza and F. Pérez-González. *Efficient zero-knowledge watermark detection with improved robustness to sensitivity attacks*. EURASIP Journal on Information Security, 2007. Special Issue on Signal Processing in the Encrypted Domain.
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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36. P. Comesaña, and F. Pérez-González. *The Impact of the Cropping Attack on Scalar STDM Data Hiding*, IEEE Signal Processing Letters, vol. 13, no. 6, pp. 353-356, June 2006.
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30. R. López-Valcarce, C. Mosquera and F. Pérez-González. *Estimation of Road Vehicle Speed Using Two Omnidirectional Microphones: a Maximum Likelihood Approach*, EURASIP Journal on Applied Signal Processing, vol. 8, pp. 1059-1077, 2004.
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◇ **D. PEER-REVIEWED CONFERENCE PAPERS**

181. A. Pedrouzo-Ulloa, J. Troncoso-Pastoriza, N. Gama, M. Georgieva, F. Pérez-González. *Multiquadratic Rings and Walsh-Hadamard Transforms for Oblivious Linear Function Evaluation*. IEEE International Workshop on Information Forensics and Security, WIFS 2020, New York, NY, December 2020.
180. F. Pérez-González and S. Fernández-Menduiña. *PRNU-leaks: Facts and Remedies*, 28th European Signal Processing Conference, EUSIPCO'20, Amsterdam, Netherlands, September 2020 (postponed to January 2021).
179. D. Vázquez-Padín and F. Pérez-González. *Prediction Residue Analysis in MPEG-2 Double Compressed Video Sequences*, 27th European Signal Processing Conference, EUSIPCO'19, A Coruña, Spain, September 2019.
178. A. Pedrouzo-Ulloa, M. Masciopinto, J.R. Troncoso-Pastoriza, and F. Pérez-González. *Efficient PRNU Matching in the Encrypted Domain*, in 2nd XoveTIC Conference, A Coruña, Spain, September 2019.
177. A. Pedrouzo-Ulloa, J.R. Troncoso-Pastoriza, and F. Pérez-González. *Revisiting Multivariate Lattices for Encrypted Signal Processing*, in ACM Information Hiding and Multimedia Security Workshop (IH&MMSec), Paris, France, 2019.
176. S. Oya, C. Troncoso and F. Pérez-González. *Rethinking Location Privacy for Unknown Mobility Behaviors*. 4th IEEE European Symposium on Security and Privacy, EuroS&P 2019, Stockholm, Sweden, June 2019.
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, EUSIPCO'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.
171. S. Oya, C. Troncoso and F. Pérez-González. *Is Geo-Indistinguishability What you are Looking for?*. Workshop on Privacy in the Electronic Society, WPES'17, Dallas, TX, October 2017.
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169. D. Vázquez-Padín, P. Comesaña and F. Pérez-González. *Random Matrix Theory for Modeling the Eigenvalue Distribution of Images under Upscaling*. Thyrronian International Workshop on Digital Communications, TIWDC'17, Mondello, Sicily, Italy, September 2017.
168. J.R. Troncoso, A. Pedrouzo-Ulloa and F. Pérez-González. *Secure Genomic Susceptibility Testing based on Lattice Encryption*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'17, New Orleans, LA, March 2017.
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, ICASSP'17, New Orleans, LA, March 2017.
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162. B. Tondi, P. Comesaña-Alfaro, F. Pérez-González and M. Barni. *On the Effectiveness of Meta-Detection for Countering Oracle Attacks in Watermarking*. IEEE International Workshop on Information Forensics and Security, WIFS 2015, Rome, Italy, November 2015.
161. D. Vázquez-Padín, P. Comesaña and F. Pérez-González. *An SVD Approach to Forensic Image Resampling Detection*. European Signal Processing Conference, EUSIPCO, Nice, France, September 2015.
160. A. Pedrouzo-Ulloa, J.R. Troncoso and F. Pérez-González. *Multivariate lattices for encrypted image processing*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'15, Brisbane, Australia, April 2015.
159. C. Pasquini, G. Boato and F. Pérez-González. *Multiple JPEG compression detection by means of Benford-Fourier coefficients*, IEEE International Workshop on Information Forensics and Security, WIFS 2014, Atlanta, GA, December 2014.
158. S. Oya, C. Troncoso and F. Pérez-González. *Understanding the Effects of Real-World Behavior in Statistical Disclosure Attacks*, IEEE International Workshop on Information Forensics and Security, WIFS 2014, Atlanta, GA, December 2014.
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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, ICIP'14, Paris, France, October 2014.
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154. S. Oya, C. Troncoso and F. Pérez-González. *Do dummies pay off? Limits of dummy traffic protection in anonymous communications*. Privacy Enhancing Technologies Symposium, PETS, Amsterdam, The Netherlands, July 2014.
153. C. Pasquini, P. Comesaña, F. Pérez-González and G. Boato. *Transportation-theoretic image counterforensics to first significant digit histogram forensics*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'14, Florence, Italy, May 2014.
152. G. Domínguez-Conde, P. Comesaña and F. Pérez-González. *Flat Fading Channel Estimation Based On Dirty Paper Coding*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'14, Florence, Italy, May 2014.
151. M. Barni, P. Comesaña, F. Pérez-González and B. Tondi. *Are you threatening me? Towards smart detectors in watermarking*. IS&T/SPIE Electronic Imaging 2014, San Francisco, CA, February 2014.
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148. D. Vázquez-Padín, P. Comesaña and F. Pérez-González. *Set-Membership Identification of Resampled Signals*, IEEE International Workshop on Information Forensics and Security, WIFS 2013, Guangzhou, China, November 2013.
147. J. Elices and F. Pérez-González. *The Flow Fingerprinting Game*. IEEE International Workshop on Information Forensics and Security, WIFS 2013, Guangzhou, China, November 2013.
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145. J. Elices and F. Pérez-González. *Locating Tor hidden services through an interval-based traffic-correlation attack* (Poster), IEEE International Conference on Network Security, Washington, D.C., October 2013.
144. P. Comesaña and F. Pérez-González. *Taking advantage of source correlation in forensic analysis*, IEEE International Workshop on Multimedia Signal Processing, MMSP'13, Pula, Sardinia, Italy, September 2013.
143. P. Comesaña and F. Pérez-González. *Forensic Analysis of Full-Frame Linearly Filtered JPEG Images*, IEEE International Conference on Image Processing, ICIP'13, Melbourne, Australia, September 2013.
142. V. Conotter, P. Comesaña and F. Pérez-González. *Quantization Lattice Estimation for Multimedia Forensics*, IEEE International Conference on Image Processing, ICIP'13, Melbourne, Australia, September 2013.
141. P. Comesaña and F. Pérez-González. *Optimal Counterforensics for Histogram-Based Forensics*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'13, Vancouver, Canada, May 2013.
140. M. Barni and F. Pérez-González. *Coping with the Enemy: Advances in Adversary-Aware Signal Processing*. IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'13, Vancouver, Canada, May 2013.
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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. *Prefilter 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, Hawaii, 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.
89. A. Malvido, F. Pérez-González and A. Cousiño. *A Novel Model for the Print-and-Capture Channel in 2D Bar Codes*. International Workshop on Multimedia Content Representation, Classification and Security. Istanbul, Turkey, September 2006.
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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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.
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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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46. F. Balado and F. Pérez-González. *Coding at the sample level for data hiding: Turbo and concatenated codes*, SPIE Conf. on Security and Watermarking of Multimedia Contents. San José, CA, USA, January 2001.
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42. F. Pérez-González and J.R. Hernández. *A Tutorial on Digital Watermarking*, 33rd IEEE Annual Carnahan Conference on Security Technology. Madrid, Spain, October 1999.
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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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.
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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.
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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.
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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.
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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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Location System, Spanish Patent ES2380532 Pending; European Patent EP 2328288 Pending.

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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 (and since 2019 President of the Board) 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.
- General Co-chair, 29th European Signal Processing Conference, EUSIPCO 21, Dublin, Ireland, August 2021.
- 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, 2020.
- 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, 2019, 2020.
- 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, 2019, 2020.
- Program Committee Member ACM International on Multimedia, 2014.
- Program Committee Member Digital Forensics Research Conference (DFRWS), 2014, 2015, 2016, 2017, 2018, 2019.
- 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, 2019, 2021.

- 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.
- Program Committee Member and Area Chair International Conference on Image Analysis and Processing, ICIAP 2019.
- Program Committee Member MultiMedia FOREnsics in the WILD Workshop, MM-forWILD 2020.
- International Adviser Committee, Midwest Symposium on Circuits and Systems (MWSCAS), 2008.
- Special Session Organizer, IHMMSEC 2021.
- 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 Trans. on Information Forensics and Security (Senior Area Editor), 2019-
 - 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.
 - Research Integrity and Peer Review.
- ◇ **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. Different research programs, Portuguese Science and Technology Foundation, 2016, 2017, 2018, 2019, 2020.
 - 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:**
- Member of the Executive Board, Royal Galician Academy of Sciences, 2019-
 - Elected Member of the IEEE Signal Processing Society, Information Forensics and Security Technical Committee, 2010-2012, 2015-2017.
 - 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.