Fernando Pérez-González

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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-December 2022**, 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, Artificial Intelligence Industry Academy (AIIA), 2023.

⋄ Fellow, Asia-Pacific Artificial Intelligence Association (AIAA), 2022.

⋄ A. Pedrouzo-Ulloa, F. Pérez-González and D. Vázquez-Padín. *Secure Collaborative Camera Attribution.* European Interdisciplinary Cybersecurity Conference (EICC), June 2022. Best Poster Award.

⋄ Galicia Award for Innovative Career 2021.

⋄ A. Pedrouzo-Ulloa, J.R. Troncoso-Pastoriza, N. Gama, M. Georgieva, F. Pérez-González, *Revisiting multivariate ring learning with errors and its applications on lattice-based cryptography*, Ernesto Vieitez Cortizo Award to Best Research Work, Royal Galician Academy of Sciences, October 2021.

⋄ A. Pedrouzo-Ulloa, M. Masciopinto, J.R. Troncoso and F. Pérez-González. *A Review of 'Camera Attribution Forensic Analyzer in the Encrypted Domain'.* 6th Spanish Conference on Cybersecurity (JNIC), June 2021. Best Published Paper Award.

⋄ 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: 6378, h-index: 38, i10-index: 120.

⋄ **Scopus (excluding self-citations)**. Total citations: 3002, h-index: 28.

Short Courses:

⋄ **Data Hiding, Media Forensics and Privacy**, 6 hour course, Applied Science Private University, Amman, Jordan, 2023.

⋄ **Satistical Multimedia Security and Forensics**, 20 hour PhD course, University of Trento, 2023.

⋄ **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 PhD 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:

⬦ **What's up with image and video forensics?**, EURASIP Journal on Image and Video Processing Webinar, 2023.

⬦ **Media Forensics: Digging Up the Invisible**, Keynote at 3rd Novel Intelligent and Leading Emerging Sciences Conference (NILES) 2021, Cairo, Egypt, 2021.

⬦ **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 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**

14. Andrea Montibeller. Dissertation: *On the Relevance of Temporal Information in Multimedia Forensics in the Age of AI*, Co-advised with Giulia Boato, Università di Trento, 2024.

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 Approachto the Design of Privacy Preserving Services*. Co-advised with Carmela Troncoso, 2019.

10. David Váquez-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 Institue 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:

◇ TRUFFLES: Trusted Framework for Federated Learning Systems. Principal Investigators: Rebeca Díaz-Redondo and Fernando Pérez-González. Funding: Spanish Government, through the Recovery, Transformation, and Resilience Plan, financed by the European Union (Next Generation), 2023. Amount: 366,660 Euro.

◇ FELDSPAR: Federated Learning with Model Ownership Protection and Privacy Armoring. Principal Investigator: Fernando Pérez-González. Funding: Spanish Ministry of Science and Innovation, Ecology and Digtal Transition Projects, 2022. Amount: 209,415 Euro.

◇ TRUMPET: A TRUstworthy Multi-site Privacy Enhancing Technologies. Principal Investigator: Fernando Pérez-González. Funded by: European Union, Horizon Europe, Project No: 101070038. Participants: Gradiant, Spain, and 8 other partners. Amount: 504,000 Euro.

◇ *Research Agreement between University of Vigo and Jumio Corporation-2*. Principal Investigator: Fernando Pérez-González. Funding: Jumio (USA), 2021. Amount: 100,000 Euro.

◇ *UNCOVER: Development of an Efficient Steganalysis Framework for Uncovering Hidden Data in Digital Media*. Principal Investigators: Fernando Pérez-González and David Vázquez-Padín. Funded by: European Union. Project No. 101021687, Call H2020-SU-SEC-2020, 2021. Participants: Royal Militay Academy, Belgium, and 20 other partners. Amount: 335,500 Euro.

◇ *Research Agreement between University of Vigo and Jumio Corporation.* Principal Investigator: Fernando Pérez-González. Funding: Jumio (USA), 2021. Amount: 65,000 Euro.

◇ *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.

◇ *ATTRIBUTE: Research on Information Protection Modules and Fraud Detection.* Principal Investigator: Fernando Pérez-González. Funded by: Gradiant, 2018. Amount: 40,000 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: Gradiant, 2018. Amount: 20,000 Euro.

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

◇ *Facial Anti-Spoofing.* Principal Investigator: Fernando Pérez-González. Funded by: Gradiant, 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: Gradiant, 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.

- *SAFECLOUD: Security and Privacy with Encrypted Processing Technologies in Cloud Computing.* Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2009. Amount: 164,843 Euro.

- *Galician Research and Development Center in Advanced Telecomms.* Principal Investigator: Fernando Pérez-González. Funded by: Xunta de Galicia (Regional Gov.), 2008. Amount: 2,484,500 Euro over 3 years.

- *MIND-GAP5: Research on multimedia technologies for the Galician industry in the next 5 years.* Principal Investigator: Javier Gonzalez-Castaño. Funded by: Regional Government, 2008. Amount: 184,500 Euro.

⋄ *REEFS: Sensor networks for spectral monitoring using FPGAs.* Principal Investigator: Carlos Mosquera. Funded by: Regional Government, 2008. Amount: 165,500 Euro.

⋄ *Echo Canceller 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.

⋄ *SEQURDOCS: 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 Proessing 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/Sofware 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: Nothern 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:

⋄ **January 2023-June 2023**, Department of Information Engineering and Computer Science, University of Trento, Italy, Visiting Professor.

⋄ **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 InternationalWorkshop, 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 InternationalWorkshop, 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 InternationalWorkshop, 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 Edicións, 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**

76. A. Montibeller and F. Pérez-González, *An Adaptive Method for Camera Attribution under Complex Radial Distortion Corrections.* IEEE Transactions on Information Forensics and Security, February 2024.

75. M. Barni, P. Campisi, E. J. Delp , G. Doërr, J. Fridrich, N. Memon, F. Pérez-González, A. Rocha, L. Verdoliva, and M. Wu, *Information Forensics and Security: A quarter-century-long journey*, in IEEE Signal Processing Magazine, vol. 40, no. 5, pp. 67-79, July 2023

74. S. Fernández-Menduiña, F. Pérez-González and M. Masciopinto, *Source camera attribution via PRNU emphasis: Towards a generalized multiplicative model.* Signal Processing: Image Communication, vol. 114, 2023. https://doi.org/10.1016/j.image.2023.116944

73. A. Pedrouzo-Ulloa, J.R. Troncoso-Pastoriza, N. Gama, M. Georgieva and F. Pérez-González. *Revisiting Multivariate Ring Learning with Errors and Its Applications on Lattice-Based Cryptography.* Mathematics, vol. 9, no. 8, 2021. https://doi.org/10.3390/math9080858

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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.

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.

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.

62. R. Kazemi, F. Pérez-González, M.A. Akhaee and F. Behnia. *Data hiding robust to mobile communication vocoders*, IEEE Trans. on Multimedia, vol. 18, no. 12, pp. 2345-2357, December 2016.

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.

60. V. Conotter, P. Comesaña-Alfaro and F. Pérez-González. *Forensic Detection of Processing Operator Chains: Recovering the History of Filtered JPEG Images*, IEEE Transactions on Information Forensics and Security, vol. 10, no. 11, pp. 2257-2269, 2015.

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.

58. F. Pérez-González, C. Troncoso and S. Oya. *A Least Squares Approach to the Static Traffic Analysis of High-Latency Anonymous Communication Systems*, IEEE Transactions on Information Forensics and Security, vol. 9, no. 9, pp. 1341-1355, September 2014.

57. B. Shebaro, F. Pérez-González and J. Crandall. *Exploiting Geometrical Structure for Forensic Applications of Timing Inference Channels*, International Journal of Digital Crime and Forensics, vol. 5, no.1, 16 pages, 2013. DOI: 10.4018/jdcf.2013010104

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.

51. M. Scagliola, F. Pérez-González and P. Guccione. *Gain Invariant Dirty Paper Coding for Hierarchical OFDM.* IEEE Transactions on Communications, vol. 59, no. 12, pp. 3323-3334, 2011.

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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.

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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.

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34. L. Pérez-Freire, F. Pérez-González and S. Voloshynovskiy. *An Accurate Analysis of Scalar Quantization-based Data-Hiding*, IEEE Trans. on Information Forensics and Security, vol. 1, no. 1, pp., March 2006.

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29. R. López-Valcarce, F. Pérez-González, *Subband hyperstable adaptive IIR filters*, IEEE Trans. on Circuits and Systems II: Analog and Digital Signal Processing, vol. 50, no. 7, pp. 383-389, July 2003.

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⋄ D. PEER-REVIEWED CONFERENCE PAPERS

189. E. Rodríguez-Lois and F. Pérez-González, *Towards Traitor Tracing in Black-and-White-Box DNN Watermarking with Tardos-based Codes.* IEEE International Workshop on Information Forensics and Security, WIFS 2023, Nuremberg, Germany, December 2023.

188. A. Pedrouzo-Ulloa, J. Ramon, F. Pérez-González, S. Lilova, P. Duflot, Z. Chihani, N. Gentili, P. Ulivi, M.A. Hoque, T. Mukammel, Z. Pritzker, A. Lemesle, J. Loureiro-Acuña, X. Mart ínez, G. Jimenez-Balsa, *Introducing the TRUMPET project: TRUstworthy Multi-site Privacy Enhancing Technologies.* IEEE CSR Workshop on Privacy-Preserving Data Processing and Analysis (2P-DPA), San Servolo, Venice, Italy, July 2023.

187. A. Montibeller, F. Pérez-González *Exploiting PRNU and Linear Patterns in Forensic Camera Attribution under Complex Lens Distortion Correction.* IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'23, Rhodes, Greece, June 2023.

186. A. Montibeller, C. Pasquini, G. Boato, S. Dell'Anna, Fernando Pérez-González. *GPU-Accelerated SIFT-Aided Source Identification of Stabilized Videos.* 29th IEEE International Conference on Image Processing (ICIP), Bordeaux, France, October, 2022

185. E. Rodríguez-Lois, D. Vázquez-Padín, F. Pérez-González, P. Comesaña-Alfaro. *A Critical Look into Quantization Table Generalization Capabilities of CNN-based Double JPEG Compression Detection.* 30th European Signal Processing Conference, EU-SIPCO'22, Belgrade, Serbia, August 2022.

184. A. Pedrouzo-Ulloa, F. Pérez-González and D. Vázquez-Padín. *Secure Collaborative Camera Attribution.* European Interdisciplinary Cybersecurity Conference (EICC), June 2022. (**Best Poster Award**).

183. M. Barni, F. Pérez-González and B. Tondi. *DNN Watermarking: Four Challenges and a Funeral.* IH&MMSec'21: ACM Workshop on Information Hiding and Multimedia Security (Virtual), June 2021.

182. A. Pedrouzo-Ulloa, M. Masciopinto, J.R. Troncoso and F. Pérez-González. *A Review of 'Camera Attribution Forensic Analyzer in the Encrypted Domain'.* 6th Spanish Conference on Cybersecurity (JNIC), June 2021. (**Best Published Paper Award**).

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.

170. S. Oya, C. Troncoso and F. Pérez-González. *Back to the drawing board: Revisiting the design of optimal location privacy-preserving mechanisms*. ACM Conference on Computer and Communications Security, CCS'17, Dallas, TX, November 2017.

169. D. Vázquez-Padín, P. Comesaña and F. Pérez-González. *Random Matrix Theory for Modeling the Eigenvalue Distribution of Images under Upscaling*. Thyrrenian 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.

166. A. Pedrouzo-Ulloa, J.R. Troncoso and F. Pérez-González. *Image Denoising in the Encrypted Domain*. IEEE International Workshop on Information Forensics and Security, WIFS 2016, Abu Dhabi, December 2016.

165. F. Pérez-González, M. Masciopinto, I. González-Iglesias, P. Comesaña. *Fast Sequential Forensic Detection of Camera Fingerprint.* IEEE International Conference on Image Processing, ICIP'16, Phoenix, AZ, September 2016.

164. M. Namazi, J.R. Troncoso-Pastoriza, and F. Pérez-González. *Dynamic Privacy-Preserving Genomic Susceptibility.* 4th ACM Workshop on Information Hiding and Multimedia Security, IHMMSEC 2016, Vigo, Spain, June, 2016.

163. C. Pasquini, P. Schöttle, R. Böhme, G. Boato, and F. Pérez-González. *Forensics of High Quality and Nearly Identical JPEG Image Recompression.* 4th ACM Workshop on Information Hiding and Multimedia Security, IHMMSEC 2016, Vigo, Spain, June, 2016.

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.

157. P. Comesaña and F. Pérez-González. *The optimal attack to histogram-based forensic detectors is simple(x)*, IEEE International Workshop on Information Forensics and Security, WIFS 2014, Atlanta, GA, December 2014. (**Best Paper Award**)

156. G. Domínguez-Conde, P. Comesaña and F. Pérez-González. *A new look at ML step-size estimation for Scalar Costa Scheme data hiding.* IEEE International Conference on Image Processing, ICIP'14, Paris, France, October 2014.

155. C. Pasquini, G. Boato and F. Pérez-González. *A Benford-Fourier JPEG compression detector.* IEEE International Conference on Image Processing, ICIP'14, Paris, France, October 2014.

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.

150. S. Oya, C. Troncoso and F. Pérez-González. *Meet the Family of Statistical Disclosure Attacks*, IEEE Global Conference on Signal and Information Processing, GlobalSIP 2013, Symposium on Cyber-Security and Privacy, Austin, TX, USA, December 2013.

149. V. Conotter, P. Comesaña and F. Pérez-González. *Joint detection of full-frame linear filtering and JPEG compression in digital images*, IEEE International Workshop on Information Forensics and Security, WIFS 2013, Guangzhou, China, November 2013.

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.

146. T. Bianchi, A. Piva and F. Pérez-González. *Near Optimal Detection of Quantized Signals and Application to JPEG Forensics*, IEEE International Workshop on Information Forensics and Security, WIFS 2013, Guangzhou, China, November 2013.

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.

139. J. Elices and F. Pérez-González and C. Troncoso. *A Least Squares Approach to User Profiling in Pool Mix-based Anonymous Communication Systems.* IEEE International Workshop on Information Forensics and Security, WIFS12, Tenerife, Spain, December 2012.

138. J. Elices and F. Pérez-González. *Fingerprinting a Flow of Messages to an Anonymous Server.* IEEE International Workshop on Information Forensics and Security, WIFS12, Tenerife, Spain, December 2012.

137. P. Comesaña and F. Pérez-González. *Multimedia operator chain topology and ordering estimation based on detection and information theoretic tools.* International Workshop on Digital-forensics and Watermarking, IWDW12, Shanghai, China, October 2012.

136. J.R. Troncoso-Pastoriza and F. Pérez-González. *Fully Homomorphic Faces.* IEEE International Conference on Image Processing, ICIP12, Orlando, USA, October 2012.

135. F. Pérez-González and C. Troncoso. *Understanding Statistical Disclosure: A Least Squares Approach.* Privacy Enhancing Technologies Symposium, PETS, 2012, Vigo, Spain, July 2012.

134. A. Rico-Alvariño, C. Mosquera and F. Pérez-González. *Overlay Spectrum Reuse in a Multicarrier Broadcast Network: Single Receiver Analysis.* 13th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cesme, Turkey, June 2012.

133. A. Rico-Alvariño, C. Mosquera and F. Pérez-González. *Overlay Spectrum Reuse in a Multicarrier Broadcast Network: Coverage Analysis.* 13th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cesme, Turkey, June 2012.

132. J. Elices, F. Pérez-González and C. Troncoso. *Fingerprinting TOR's Hidden Service Log Files Using a Timing Channel.* IEEE Intl. Workshop on Information Forensics and Security, WIFS'11, Foz de Iguazu, Brazil, November-December 2011. **Gold Award to Best Student Paper.**

131. D. Vázquez-Padín and F. Pérez-González. *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. *Perfomance Analysis of the Fridrich-Goljan Self-Embedding Authentication Method*, IEEE International Conference on Image Processing, ICIP09, Cairo, Egypt, September 2009.

110. D. Gonzalez-Jimenez, E. Argones-Rua, F. Perez-Gonzalez and J.L. Alba-Castro. *Modeling Magnitudes of Gabor Coefficients: the β-Rayleigh Distribution*, IEEE International Conference on Image Processing, ICIP09, Cairo, Egypt, September 2009

109. T.T. Quach, F. Pérez-González and G.L. Heileman. *Model-based steganalysis using invariant features*, Media Forensics and Security XI, San Jose, CA, USA, January 2009.

108. B. Mathon, P. Bas, F. Cayre and F. Pérez-González *Distortion Optimization of Model-Based Secure Embedding Schemes for Data-Hiding*, 10th Information Hiding Workshop, Santa Barbara, CA, U.S.A., May 2008.

107. F. Pérez-González, T.T. Quach, G. Heileman and C.T. Abdallah. *Benford's Law and Multimedia Signals.* Workshop on Applications of Benford's Law, Santa Fe, NM, USA, December 2007.

106. P. Comesaña and F. Pérez-González. *Dither Modulation in the Logarithmic Domain.* International Workshop on Digital Watermarking, IWDW'07, Guangzhou, China, December 2007 (**Nominated for the best paper award**)

105. P. Comesaña and F. Pérez-González. *On the Capacity of Stegosystems.* ACM Multimedia Security Workshop (MMSEC'07), Dallas, TX, USA, September 2007.

104. F. Pérez-González, G. Heileman and C.T. Abdallah. *Benford's Law in Image Processing.* IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.

103. D. González-Jiménez, F. Pérez-González, P. Comesaña, L. Pérez-Freire and J.L. Alba-Castro. *Modeling Gabor Coefficients Via Generalized Gaussian Distributions for Face Recognition.* IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.

102. G. Boato, F.G. B. De Natale, C. Fontanari and F. Pérez-González. *Statistical Analysis of a Linear Algebra Asymmetric Watermarking Scheme.* IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.

101. P. Comesaña and F. Pérez-González. *On a Watermarking Scheme in the Logarithmic Domain and its Perceptual Advantages.* IEEE International Conference on Image Processing, ICIP'07, San Antonio, TX, USA, September 2007.

100. F. Pérez-González, G. Heileman and C.T. Abdallah. *A Generalization of Benford's Law and Its Application to Images.* European Control Conference 2007, Kos, Greece, July 2007.

99. L. Pérez-Freire y F. Pérez-González. *Disclosing secrets in data-hiding and watermarking.* Third Wavila Challenge, Saint-Malo, France, June 2007.

98. L. Pérez-Freire and F. Pérez-González. *Exploiting security holes in lattice data hiding.* 7th Information Hiding Workshop. Saint-Malo, France, June 2007. **Best Young Researcher Paper Award**.

97. M. Barni, F. Pérez-González, P. Comesaña and G. Bartoli. *Putting Reproducible Signal Processing into Practice: a Case Study in Watermarking.* IEEE International Conference on Acoustics, Speech and Signal Processing, Hawai, USA, April 2007.

96. J.R. Troncoso and F. Pérez-González. *Efficient Noninteractive Zero-Knowledge Watermark Detector Robust to Sensitivity Attacks.* Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, Estados Unidos, January 2007.

95. F. Balado and F. Pérez-González. *On Distortion Measures Associated to Random Desynchronization Attacks.* Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007.

94. L. Pérez-Freire, P. Moulin and F. Pérez-González. *Security of Spread-Spectrum-Based Data Hiding.* Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007.

93. P. Comesaña, F. Balado y F. Pérez-González. *A Novel Interpretation of Content Authentication.* Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007.

92. P. Comesaña and F. Pérez-González. *Two Different Approaches for Attacking BOWS.* Security, Steganography, and Watermarking of Multimedia Contents IX, San Jose, California, USA, January 2007

91. L. Pérez-Freire, F. Pérez-González and T. Furon. *On Achievable Security Levels for Lattice Data Hiding in the Known Message Attack Scenario.* 8th ACM Multimedia and Security Workshop. Geneva, Switzerland, September 2006.

90. J.R. Troncoso and F. Pérez-González. *Zero-Knowledge Watermark Detector Robust to Sensitivity Attacks.* 8th ACM Multimedia and Security Workshop. Geneva, Switzerland, September 2006.

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.

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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, 4th 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.
- General Chair, 12th ACM Information Hiding and Multimedia Security Workshop, IHMMSEC 24, Baiona, Spain, June 2024.
- 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, 2021, 2022.
- 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, 2021, 2022, 2023.

· 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, 2021, 2023.

· Program Committee Member ACM International on Multimedia, 2014.

· Program Committee Member Digital Forensics Research Conference (DFRWS), 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024.

· 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 2022, 2023.

- 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 Commitee Member, Thyrrhenian Workshop on Digital Communications, 2017.
- Program Commitee Member, IEEE Statistical Signal Processing Workshop (SSP), 2018.
- Program Committee Member, ACM Cloud Computing Security Workshop (CCSW), 2020
- Program Committee Member, Workshop on Privacy in the Electronic Society, 2021.
- Program Committee Member, European Interdisciplinary Cybersecurity Conference, 2022, 2023.
- 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, IEEE WIFS, 2023.
- 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 Commitee. 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).
- · French National Institute for Research in Digital Science and Technology (INRIA).

⋄ **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.