

# **Curriculum Vitae**



**Javier Ortega-Garcia**

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## **Contact Information**

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## **Education**

**M.S. Electrical Engineering** (Integrated 6-year Program) - "Ingeniero de Telecomunicación"  
Electrical Engineering School (Escuela Técnica Superior de Ingenieros de Telecomunicación)  
Universidad Politécnica de Madrid  
October 1989

**Ph. D. Electrical Engineering** (with *Cum Laude* distinction)  
Electrical Engineering School (Escuela Técnica Superior de Ingenieros de Telecomunicación)  
Universidad Politécnica de Madrid  
April 1996

## **Employment**

**Full Professor**  
Signal Processing Chair  
Universidad Autonoma de Madrid  
2008 -

**Associate Professor**  
Universidad Autonoma de Madrid  
2004 - 2007

**Associate Professor**  
Universidad Politecnica de Madrid  
1999 - 2004

**Assistant Professor**  
Universidad Politécnica de Madrid  
1992 - 1999

## **Academic Management Positions**

**Dean, Technical Engineering School**  
Universidad Autonoma de Madrid  
May 2012 -

**Vice-Dean, Technical Engineering School**  
Universidad Autonoma de Madrid  
2008 - 2012

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## **Major Conference and Workshop Organization**

- **General Chair, URSI-2016, XXXI Spanish Conference of the International Union of Radio Science (URSI),** September 2016, Madrid (Spain)
- **General Chair, ICB-2013, ICPR/IEEE Intl. Conference on Biometrics, June 2013, Madrid (Spain)**
- **General Chair, NSS-2013, Intl. Conference on Network and System Security, June 2013, Madrid (Spain)**
- **General Chair - BioID\_MultiComm '09, COST 2101 & COST 2102 Intl. Conf., Sep. 2009, Madrid (Spain)**
- **Co-Chairman ICB-09, ICPR/IEEE Intl. Conference on Biometrics, June 2009, Alghero - Sardinia (Italy)**
- **Chairman Odyssey-04, The ISCA/IEEE Speaker and Language Recognition Workshop, June 2004, Toledo, Spain**
- **Vice-Chairman URSI-02, XVII Spanish Conference of the International Union of Radio Science (URSI),** September 2002, Alcalá de Henares (Madrid, Spain)
- **Chairman SEAF-2000, 1<sup>st</sup> Workshop of the Spanish Society of Forensic Acoustics, October 2000, Madrid, Spain**
- **Technical Secretary EUROSPEECH-95, ISCA 4<sup>th</sup> International Conference on Speech Communication and Technology, September 1995, Madrid (Spain)**

## **Editorial Boards and Journal Reviewer**

### **Editorial Boards - Associate Editor**

- IET Biometrics (*IET, The Institution of Engineering and Technology; Computer Image & Vision*) JCR 2015 – Impact Factor: 0.764
- Pattern Analysis and Applications (*PPA - Springer; Image Processing*) JCR 2015 – Impact Factor: 1.104
- Mathematical Problems in Engineering (Hindawi Pub. Corp.) JCR 2015 – Impact Factor: 0.644

### **Reviewer**

- IEEE Trans. on Pattern Analysis and Machine Intelligence
- IEEE Trans. on Information Forensics and Security
- IEEE Trans. on Image Processing
- IEEE Trans. on Speech and Audio Processing
- IEEE Trans. on Neural Networks
- IEEE Trans. on Systems, Man, and Cybernetics, Part B: Cybernetics
- IEEE Trans. on Systems, Man, and Cybernetics, Part C: Applications and Reviews
- IEEE Trans. on Circuits and Systems for Video Technology
- Digital Signal Processing, Elsevier
- Pattern Recognition, Elsevier
- Speech Communication, Elsevier
- Forensic Science International, Elsevier
- Journal of the Acoustical Society of America (JASA)
- Image and Vision Computing, Elsevier
- Pattern Recognition Letters, Elsevier
- Pattern Analysis and Application Journal

## Paper Awards

- **Best Paper Award, Intl. Conf. on Biometrics ICB-2015**, for the paper: M. Gomez-Barrero, J. Galbally, J. Fierrez, J. Ortega-Garcia and R. Plamondon, "Enhanced On-Line Signature Verification Based on Skilled Forgery Detection Using Sigma-LogNormal Features", in Proc. IEEE/IAPR Int. Conf. on Biometrics, ICB, pp. 501-506, Phuket, Thailand, May 2015.
- **Honorable Mention in the Best Student Paper Award**, for the paper: M. Martinez-Diaz, J. Fierrez and J. Ortega-Garcia, "Universal Background Models for Dynamic Signature Verification", *Proc. IEEE Conference on Biometrics: Theory, Applications and Systems, BTAS-07*, pp. 1-6, Washington DC, USA, September 2007.
- **IBM-Research Best Student Paper**, for the paper: D. Ramos-Castro, J. Gonzalez-Rodriguez, and J. Ortega-Garcia, "Likelihood Ratio Calibration in a Transparent and Testable Forensic Speaker Recognition Framework", IEEE International Conference on Speaker and Language Recognition, *Odyssey-06*, San Juan, Puerto Rico, June 2006.
- **Motorota Best Student Paper**, for the paper: J. Fierrez-Aguilar, Y. Chen, J. Ortega-Garcia, and A. K. Jain, "Incorporating image quality in multi-algorithm fingerprint verification", *Proc. IAPR Intl. Conf. on Biometrics, ICB-06*, pp. 213-220, Hong Kong, January 2006, LNCS-3832.
- **Best Poster Award**, for the paper: J. Fierrez-Aguilar, J. Ortega-Garcia, D. Garcia-Romero and J. Gonzalez-Rodriguez, "A Comparative Evaluation of Fusion Strategies for Multimodal Biometric Verification", *Intl. Conf. on Audio- and Video-Based Person Authentication, AVBPA 2003*, pp. 830-837, Guildford (UK), June 2003

## Academic Awards

- **Best PhD Thesis Award, Universidad Politecnica de Madrid, 2009-2010**. Fernando Alonso-Fernandez. Title: "*Biometric Sample Quality and Its Application to Multimodal Authentication Systems*". *PhD Thesis Advisor*. Javier Ortega-Garcia.
- **BANESTO 2010 Award, Best PhD Thesis in Information and Communications Technologies for Banking**. Fernando Alonso-Fernandez. Title: "*Biometric Sample Quality and Its Application to Multimodal Authentication Systems*". *PhD Thesis Advisor*. Javier Ortega-Garcia.
- **Marie Curie Outgoing Internacional Fellowship Program**. Julian Fierrez. *Director*: Javier Ortega-Garcia.
- **Best PhD Thesis Award, Universidad Politecnica de Madrid, 2005-2006**. Julian Fierrez, "*Adapted Fusion Schemes for Multimodal Biometric Authentication*". *PhD Thesis Advisor*. Javier Ortega-Garcia.
- **Best PhD Thesis Award, Spanish IAPR Branch (Asociación Española de Reconocimiento de Formas y Análisis de Imágenes - AERFAI)**, Julian Fierrez, "*Adapted Fusion Schemes for Multimodal Biometric Authentication*". *PhD Thesis Advisor*. Javier Ortega-Garcia.

- **Rosina Ribalta 2005 Award, Epson Ibérica Foundation.** Best PhD Thesis in Information Technologies: Julian Fierrez, "*Adapted Fusion Schemes for Multimodal Biometric Authentication*", Universidad Politécnica de Madrid, *PhD Thesis Advisor*. Javier Ortega-Garcia
- **Spanish Electrical Engineers' Association / 2007 Foundation France Telecom Award.** Best PhD Thesis in Multimedia Convergence to: Julian Fierrez, "*Adapted Fusion Schemes for Multimodal Biometric Authentication*", Universidad Politécnica de Madrid, *PhD Thesis Advisor*. Javier Ortega-Garcia
- **Spanish Electrical Engineers' Association / 2007 Bosch Security Systems Award.** Best MS Degree Thesis in Video Surveillance and Security to: M. Martinez-Diaz, "*Vulnerabilities of Fingerprint-Based Biometric Authentication Systems*". *MS Thesis Advisor*. Javier Ortega-Garcia

## Keynote Speaker

- J. Ortega-Garcia, "*Behavioral Biometrics for Human-Machine Interaction Characterization*", Keynote Speaker, Universidad de Antioquia, Medellin (Colombia), October 2016.
- J. Ortega-Garcia, "*New Trends in Biometric Signature Authentication for Banking*", in Biometrics in Financial Services Seminar, London (UK), March 2016.
- J. Ortega-Garcia, "*Cognitive Biometric Authentication - Remote Authentication Based on Human-Machine Interaction*", Keynote Speaker, 2015 Intl. Conf. of the Biometrics Special Interest Group (BIOSIG), BIOSIG 2015, Darmstadt (Germany), September 2015.
- J. Ortega-Garcia, "*Session 2: Legal framework and Protection of Personal Data*", Keynote Speaker, UNICEF Information and Communication Technologies to Support Birth Registration, Bern (Switzerland), December 2014.
- J. Ortega-Garcia, "*Could traditional handwritten biometrics be key technologies in future banking applications?*", Panelist in *Benefits of Biometrics in Banking - Reality Check 2014*, European Association for Biometrics (EAB) Workshop, Berlin (Germany), May 21, 2014.
- J. Ortega-Garcia, "*Current Advances in Signature Biometrics*", Invited Speaker in *2009 SPIE Biometric Technology for Human Identification*, BTHI-09, Tampa (FL, USA), April 2009.
- J. Ortega-Garcia, "*Current Developments and Future Trends in Biometric Recognition inside ATVS*", Università di Cagliari, Cagliari, Italy, November 2008.
- J. Ortega-Garcia, "*Direct and Indirect Attacks to Biometric Recognition Systems*", Michigan State University, East Lansing (MI, USA), July 2008.
- J. Fierrez, F. Alonso-Fernandez, D. Ramos, J. Galbally, and J. Ortega-Garcia, "*Dealing with Sensor Interoperability using Quality Estimates: The UAM experience at BMEC 2007*", in NIST Biometric Quality Workshop, Gaithersburg, Maryland, USA, November 2007.

- F. Alonso-Fernandez, J. Fierrez, D. Ramos, M. Martinez-Diaz, and J. Ortega-Garcia, "*The UAM submissions at BMEC 2007*", in BioSecure Workshop, Fribourg, Switzerland, September 2007.
- F. Alonso-Fernandez, J. Fierrez-Aguilar, H. Fronthaler, K. Kollreider, J. Bigun, J. Ortega-Garcia, "*Cutting-edge fingerprint recognition*", in BioSecure Workshop, Vigo, Spain, September 2006.
- J. Ortega-Garcia, "*Panorámica del Reconocimiento Biométrico de Personas*", Universidad Simón Bolívar, Caracas (Venezuela), Julio 2006.
- J. Ortega-Garcia, "*State-of-the-Art in Multimodal Biometric Databases*", Summer School for Advanced Studies on Biometrics, Alghero (Italy), June 2006.
- J. Fierrez-Aguilar, J. Ortega-Garcia, *et al.*, "*Incorporating Biometric Quality in Multi-Biometrics*", NIST Biometric Quality Workshop, US National Institute of Standards and Technology, March 2006.
- J. Ortega-García, "*Multimodal Biometric Systems Using Quality Requirements*", Biometrics Seminar for Industry, University of Hertfordshire at Hatfield, Organized by COST-275, October 2005.
- J. Ortega-Garcia, "*Speaker Recognition*", Michigan State University, East Lansing (MI, USA), April 2005.
- J. Ortega-García, "*GAUDÍ/AHUMADA Speech Corpus for Speaker Recognition*", NIST 2000 Speaker Recognition Workshop, Maritime Institute of Technology, Linthicum, MD (USA), June 2000.
- J. Ortega-Garcia, J. Gonzalez-Rodriguez, V. Marrero-Aguilar, "Speaker Recognition-Oriented 'AHUMADA' Large Speech Corpus in Spanish", Management Group Meeting of COST-250 ("Speaker Recognition through Telephone Lines"), Working Group 2 ("Databases"), Porto (Portugal), March 1999.

### **Keynote Speaker (in Spanish)**

- J. Ortega-Garcia, "Firma Biométrica Manuscrita", II Jornadas sobre Firma Electrónica en las Administraciones Públicas, Madrid, Octubre 2013.
- J. Ortega-Garcia, "Sistemas Automáticos de Reconocimiento Biométrico", Dirección General de la Guardia Civil, Fase Interacademias, Mérida, Febrero 2008.
- J. Ortega-Garcia, "Sistemas Biométricos en Aplicaciones de Seguridad y Defensa", XI Jornadas de Tecnologías para la Defensa y la Seguridad, Círculo de Tecnologías para la Defensa y la Seguridad, Madrid, Noviembre 2004.
- J. Ortega-Garcia, "Análisis de las Posibilidades de Integración de la Biometría con los Sistemas de Acceso", 7º Congreso sobre Tecnología de Tarjeta, Seguridad y Medios de Pago, CIT-SECUR 2004, Institute for International Research (IIR), Madrid, Marzo 2004.
- J. Ortega-Garcia, "Multimodalidad Biométrica", Seminario sobre Sistemas de Identificación y Autenticación Biométrica, Institute for International Research (IIR), Madrid, Febrero 2004.
- J. Ortega-Garcia, "¿Pueden la Voz, la Cara, el Iris, la Firma o la Huella Dactilar Identificar a una Persona? Una Aproximación a los Sistemas Automáticos de Identificación Biométrica?", Seminario de la asignatura "Visión Artificial", Presentación en la Escuela Superior de Ciencias Experimentales y Tecnológicas, Universidad Rey Juan Carlos, Madrid, Enero 2004.

- J. Ortega-Garcia, “Modalidades en los Sistemas de Identificación Biométrica”, Seminario sobre Sistemas de Identificación y Autenticación Biométrica, Institute for International Research (IIR), Madrid, Octubre 2003.
- J. Ortega-Garcia, “La problemática de la Interpretación de la Evidencia de Voz en el Informe Pericial”, Mesa Redonda, II Congreso de la Sociedad Española de Acústica Forense, SEAF-2003, Barcelona, Abril 2003.
- J. Ortega-Garcia, “Sistemas de Identificación Biométrica”, 6º Congreso sobre Tecnología de Tarjeta, Seguridad y Medios de Pago, CIT-SECUR 2003, Institute for International Research (IIR), Madrid, Febrero 2003.
- J. Ortega-Garcia, “Identificación Biométrica: el Definitivo Quién-es-Quién de los Entornos de Seguridad”, Jornadas de Biometría y Seguridad del CIDEM, Generalitat de Catalunya, Barcelona, Junio 2002.
- J. Ortega-Garcia, “La Identificación Biométrica, realidad o ficción. Demostración de un sistema real”, e-Gallaecia: Seguridad 2001, Santiago de Compostela, Junio 2001.
- J. Ortega-Garcia, “Sistemas Biométricos: Identificación Automática a través de Rasgos Personales”, IV Jornadas Nuevas Tecnologías aplicadas a la Seguridad, AFARMADE, Madrid, Mayo 2001.
- J. Ortega-Garcia, “IdentiVox: Una aproximación a la identificación automática por la voz”, Dirección General de la Guardia Civil, IV Fase Interacademias, Mérida, Abril 2000.
- J. Ortega-Garcia, “Identivox: desarrollo de un sistema de reconocimiento de locutores con fines forenses”, II Simposio sobre Reconocimiento de Voz con Fines Forenses, Conferencia, Universidad Politécnica de Cartagena, Noviembre 1999.
- J. Ortega-Garcia, “Problemática de la Prueba Pericial de Reconocimiento de Voz”, II Simposio sobre Reconocimiento de Voz con Fines Forenses, Participante en la Mesa Redonda, Universidad Politécnica de Cartagena, Noviembre 1999.
- J. Ortega-Garcia, “Panorámica de la Identificación de Personas a Través de la Voz”, IV Jornadas Nuevas Tecnologías aplicadas a la Seguridad, AFARMADE, ETSI Navales, Universidad Politécnica de Madrid, Junio 1999.
- J. Ortega-Garcia, “Sociedad de la Información y aplicaciones de la tecnología de habla: codificación, síntesis y reconocimiento”, SFERA '99, VIII Jornadas de la Tecnología y el Hombre, EUIT Telecomunicación, Universidad Politécnica de Madrid, Marzo 1999.
- J. Ortega-Garcia, “Aplicaciones del Procesado de Voz en Entornos Acústico-Forenses”, I Simposio sobre Técnicas de Análisis de Voz con Fines de Identificación, Dirección General de la Guardia Civil, Servicio de Policía Judicial, Madrid, Noviembre 1996.

## **Member of Program & Technical Committees**

- EAB Awards Committee Member, European Association for Biometrics (EAB) Awards, 10th European Biometrics Research and Industry Awards, September 2016, Darmstadt (Germany)
- ICB-2016, ICPR/IEEE Intl. Conference on Biometrics, June 2016, Halmstad (Sweden)



- ICFHR-2016, 15th International Conference on Frontiers in Handwriting Recognition, October 2016, Shenzhen (China)
- IEEE ICASSP-2016, 41st International Conference on Acoustics, Speech and Signal Processing, March 2016, Shanghai, (China)
- IEEE BIOSIG-2016, International Conference of the Biometrics Special Interest Group, September 2016, Darmstadt (Germany)
- IEEE ICASSP-2015, 40th International Conference on Acoustics, Speech and Signal Processing, April 2015, Brisbane, (Australia)
- IEEE BIOSIG-2015, International Conference of the Biometrics Special Interest Group, September 2015, Darmstadt (Germany)
- ICPR 2014, IAPR / IEEE 22<sup>nd</sup> International Conference on Pattern recognition, August 2014, Stockholm (Sweden)
- IJCB 2014, International Joint Conference on Biometrics, Sept-Oct 2014, Miami (FL, USA)
- Interspeech 2014, 15<sup>th</sup> Annual Conference of the International Speech Communication Association, September 2014, Singapore
- Odyssey 2014, The Speaker and Language Recognition Workshop, June 2014, Joensuu (Finland).
- ICFHR 2014, 14<sup>th</sup> International Conference on Frontiers of Handwriting Recognition, September 2014, Crete Island (Greece)
- IEEE Biosig 2014, International Conference of the Biometrics Special Interest Group, September 2014, Darmstadt (Germany)
- IEEE Biosig 2013, International Conference of the Biometrics Special Interest Group, September 2013, Darmstadt (Germany)
- EAHSP 2013, Emerging Aspects in Handwritten Signature Processing, September 2013, Naples (Italy).
- Odyssey 2012, The Speaker and Language Recognition Workshop, June 2014, Singapore
- ICPR 2012, IAPR / IEEE 21<sup>st</sup> International Conference on Pattern recognition, November 2012, Tsukuba (Japan)
- ICFHR 2012, 13<sup>th</sup> International Conference on Frontiers of Handwriting Recognition, September 2012, Bari (Italy).
- IEEE Biosig 2012, International Conference of the Biometrics Special Interest Group, September 2012, Darmstadt (Germany)
- International Joint Conference on Biometrics, **IJCB-11**, Program Committee, October 2011, Washington DC (USA).
- AFHA 2011, International Workshop on Automated Forensic Handwriting Analysis, September 2011, Beijing (China)

- COST2101 Biometrics and Identity Management International Workshop, **BioID 2011**, March 2011, Brandenburg (Germany).
- 2nd International Workshop on Interactive Multimodal Pattern Recognition in Embedded Systems, **IMPRESS-11**, Program Committee, September 2011, Toulouse (France).
- IAPR International Conference on Pattern Recognition, **ICPR-10**, Organizing Committee – European Liaisons, August 2010, Istanbul (Turkey).
- IAPR International Conference on Pattern Recognition, **ICPR-10**, Technical Committee (reviewer), August 2010, Istanbul (Turkey).
- ISCA International Conference on Speech and Language Technology, **INTERSPEECH-10**, Scientific Review Committee, September 2010, Makuhari (Japan).
- The ISCA Speaker and Language Recognition Workshop, **Odyssey 2010**, Scientific Committee, June 2010, Brno (Czech Republic).
- IEEE International Conference on Bio-Science and Bio-Technology, **BSBT-10**, Program Committee, December 2010, Jeju Island (Korea).
- 2nd International Conference on Pervasive Patterns and Applications, **PATTERNS 2010**, Technical Program Committee, November 2010, Lisbon (Portugal).
- 10<sup>th</sup> International Workshop on Pattern Recognition in Information Systems, **PRIS 2010**, Program Committee, June 2010, Funchal-Madeira (Portugal).
- First International Workshop on Interactive Multimodal Pattern Recognition in Embedded Systems, **IMPRESS-10**, Program Committee, September 2010, Bilbao (Spain).
- IEEE Intl. Conf. on Acoustics, Speech and Signal Processing, **ICASSP-09**, Apr. 2009, Taipei (Taiwan)
- IEEE International Conference on Bio-Science and Bio-Technology, **BSBT-09**, Dec 2009, Jeju Island (Korea)
- Scientific Review Committee. 12<sup>th</sup> Intl. Conf. on Speech Communication and Technology, **INTERSPEECH-08**, Sept. 2008, Brisbane (Australia)
- IEEE International Conference on Acoustics, Speech and Signal Processing, **ICASSP-08**, March-April 2008, Las Vegas (NV, USA)
- IEEE 2008 Biometrics Symposium, **BSYM-08**, part of Biometric Consortium Conference, September 2008, Tampa (FL, USA)
- IEEE 2<sup>nd</sup> International Conference on Biometrics: Theory, Applications and Systems, **BTAS-08**, September 08, Washington DC (USA)
- 2008 International Conference on Bio-Science and Bio-Technology, **BSBT-08**, December 2008, Hainan Island, China.
- IAPR 19th International Conference on Pattern Recognition, **ICPR-08**, Track 7 – Biometrics, December 2008, Tampa (FL, USA)

- ELRA Language and Speech Technology Conference, **LangTech-08**, February 2008, Rome (Italy)
- 5<sup>th</sup> conference on Biometric Technology for Human Identification, **BTHI-08**, at SPIE 2008 Defense and Security Symposium, March 2008, Orlando (FL, USA)
- IEEE Biometrics Symposium 2007, **BSYM-07**, Sept. 2007, Baltimore (MD, USA)
- IEEE Workshop on Automatic Identification Advances Technologies, **AutoID 2007**, June 2007, Alghero, Sardinia (Italy)
- ISCA 10th International Conference on Speech Communication, **InterSpeech-07 (EuroSpeech)**, August 2008, Antwerp (Belgium)
- International Symposium on Biometrics and Security Technologies, **ISBAST-07**, December 2007, Karachi (Pakistan)
- 7<sup>th</sup> International Workshop on Pattern Recognition in Information Systems, **PRIS-07**, June 2007, Funchal, Madeira Island
- 2<sup>nd</sup> Workshop on Multimodal User Authentication, **MMUA-06**, May 2006, Toulouse (France)
- ELRA 5<sup>th</sup> Conference on Language Resources and Evaluation, **LREC-06**, May 2006, Genoa (Italy)
- 3<sup>th</sup> **COST-275** Workshop, “Biometrics on the Internet”, October 2005, Hatfield (UK)
- IAPR 5<sup>th</sup> International Conf. on Audio- and Video-Based Person Authentication, **AVBPA-05**, July 2005, Tarrytown, New York (USA)
- EURASIP 13<sup>th</sup> European Signal Processing Conference, **EUSIPCO-05**, September 2005, Antalya (Turquía)
- ISCA 9<sup>TH</sup> International Conference on Speech Communication and Technology, **InterSpeech-05 (EuroSpeech)**, *September 2005, Lisboa (Portugal)*
- International Conference on Biometric Authentication, **ICBA-04**, July 2004, Hong Kong
- ELRA 4<sup>th</sup> International Conference on Language Resources and Evaluation, **LREC-04**, May 2004, Lisboa (Portugal)
- IAPR 17th International Conference on Pattern Recognition, **ICPR-04**, Track 3 -Image and Signal Processing, August 2004, Surrey (UK)
- Biometric Authentication Workshop, **BIOAW-04**, Post-European Conf. on Computer Vision Workshop, May 2004, Prague (Czech Republic)
- ISCA International Conference on Spoken Language Processing, **InterSpeech-05 / ICSLP**, May 2004, Jeju Island (Korea)
- Workshop on Multimodal User Authentication, **MMUA 2003**, December 2003, Santa Barbara (CA, USA)
- ISCA 8<sup>TH</sup> International Conference on Speech Communication and Technology, **EUROSPEECH-03**, September 2003, Geneve (Switzerland)

## **Publications**

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### **Publication Record (Google Scholar)**

Total number of cites; 7,898

h-index: 47

i10-index: 127

### **Books**

1. J. Fierrez, A. Kumar, M. Vatsa, R. Veldhuis and J. Ortega-Garcia (eds.), Proc. of IAPR / IEEE 2013 International Conference on Biometrics, June 2013.
2. J. M. Molina López, J. R. Casar Corredera, M. F. Cátedra Pérez, J. Ortega-García, A. M. Bernardos Barbolla (eds.), *User-Centric Technologies and Applications*, Proc. of the CONTEXTS 2011 Workshop, Advances in Intelligent and Soft Computing, Vol. 94, 2011, ISBN 978-3-642-19907-3.
3. J. Fierrez, J. Ortega-Garcia, A. Esposito, A. Drygajlo and M. Faundez-Zanuy (eds.), *Biometric ID Management and Multimodal Communication*, Proc. of Joint COST 2101 and 2102 International Conference, BioID\_MultiComm 2009, Madrid, Spain, September 16-18, 2009, Springer LNCS-5707.
4. J. Ortega-Garcia, F. Alonso-Fernandez, R. Coomonte-Belmonte, *Biometría y Seguridad, (Biometrics and Security)*, Cuadernos Cátedra ISDEFE-UPM, in Spanish, Vol. 3, edited by FUNDETEL, June 2008, ISBN: 978-84-7402-350-5.
5. J. Ortega-Garcia, J. Gonzalez-Rodriguez, F. Bimbot, J.-F. Bonastre, J. Campbell, I. Magrin-Chagnolleau, J. Mason, R. Peres, D. Reynolds (eds.), *Proceedings of Odyssey-04, The ISCA/IEEE Speaker and Language Recognition Workshop*, June 2004, Toledo (Spain), ISBN: 84-7490-722-5.
6. J. M. Pardo Muñoz, E. Enriquez, Javier Ortega García (eds.), *Proceedings of EUROSPEECH '95, 4<sup>th</sup> European Conference on Speech Communication and Technology*, European Speech Communication Association (ESCA), Madrid, Sept. 1995. ISSN: 1018-4074.

### **Book Chapters**

1. J. Fierrez and J. Ortega-Garcia, "Fusion, User-Specific", Stan Z. Li and Anil K. Jain (Eds.), *Encyclopedia of Biometrics*, Springer, pp. 778-782, 2015 (ISBN 978-1-4899-7487-7, re-edited from 2009).
2. M. Martinez-Diaz, J. Fierrez, and J. Ortega-Garcia, "Automatic Signature Verification on Handheld Devices", (S. Kurkovsky, ed.), Chapter 14 in *Multimodality in Mobile Computing and Mobile Devices: Methods for Adaptable Usability*, pp. 321-338, IGI Global Publisher, May 2014.
3. J. Galbally, J. Fierrez, J. Ortega-Garcia and R. Cappelli, "Fingerprint Anti-spoofing in Biometric Systems", (S. Marcel, M. Nixon and Stan Z. Li, Eds.), *Handbook of Biometric Anti-Spoofing*, Springer, pp. 35-64, 2014 (ISBN 978-1-4471-6523-1).
4. F. Alonso-Fernandez, J. Bigun, J. Fierrez, H. Fronthaler, K. Kollreider and J. Ortega-Garcia, "Fingerprint Recognition", D. Petrovska-Delacretaz and G. Chollet and B. Dorizzi (Eds.), *Guide to Biometric Reference*

- Systems and Performance Evaluation, Springer-Verlag, London, February 2010 (ISBN 978-1-84800-291-3).
5. D. T. Toledano, J. Gonzalez-Rodriguez, J. Ortega-Garcia, "Speech Input Devices", Chapter in *Encyclopedia of Biometrics*, S. Z. Li (ed.), Springer, 2009 (ISBN: 978-0-387-73003-5).
  6. J. Gonzalez-Rodriguez, D.T. Toledano, J. Ortega-Garcia, "Voice Biometrics", Chapter 8 in *Handbook of Biometrics*, (A.K. Jain, P. Flynn and A. Ross, eds.), pp. 151-170, Springer, 2008.
  7. J. Fierrez, J. Ortega-Garcia, "On-Line Signature Verification", Chapter 10 in *Handbook of Biometrics*, (A.K. Jain, P. Flynn and A. Ross, eds.), pp. 189-210, Springer, 2008.
  8. J. Fierrez, J. Ortega-Garcia, "Function-Based Online Signature Verification", Chapter 12 - Part II Algorithms in *Advances in Biometrics: Sensors, Algorithms and Systems*, (N. Ratha and V. Govindaraju, eds.), pp. 225-246, Springer, 2008.
  9. F. Alonso-Fernandez, J. Bigun, J. Fierrez, H. Fronthaler, K. Kollreider and J. Ortega-Garcia, "Fingerprint Recognition", in *Guide to Biometric Reference Systems and Performance Evaluation*, (D. Petrovska-Delacretaz and G. Chollet and B. Dorizzi, eds.), Springer-Verlag, London, 2008 (ISBN 978-1-84800-291-3).
  10. S. Garcia-Salicetti, N. Houmani, B. Ly-Van, B. Dorizzi, F. Alonso-Fernandez, J. Fierrez, J. Ortega-Garcia, C. Vielhauer and T. Scheidat, "Online Handwritten Signature Verification", in *Guide to Biometric Reference Systems and Performance Evaluation*, (D. Petrovska-Delacretaz and G. Chollet and B. Dorizzi, eds.), Springer-Verlag, London, 2008 (ISBN 978-1-84800-291-3).
  11. J. Gonzalez-Rodriguez, D. Ramos-Castro, D. Garcia-Romero, J. Ortega-Garcia, "Reconocimiento del Locutor" (*Speaker Recognition*), in Spanish, Chapter 7 in *Tecnologías Biométricas Aplicadas a la Seguridad* (J. A. Sigüenza, M. Tapiador, eds.), pp. 174-206, Editorial Ra-Ma, ISBN: 8478976361, Madrid, March 2005.
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44. J. Ortega-García, J. González-Rodríguez, J. M. Páez, L.A. Hernández, "Utilización de Técnicas de Filtrado Adaptativo para la Mejora del Reconocimiento de Palabras-Clave en Habla Continua", VIII Symposium Nacional de la Unión Científica Internacional de Radio, URSI-93, pp. 269-273, Valencia, 1993.
45. J. Zaldo, E. Borreguero, J. Ortega-García, "Sistema de Desarrollo para Aplicaciones de Voz", VII Symposium Nacional de la Unión Científica Internacional de Radio, URSI-92, Málaga, 1992.
46. J. Ortega-García, I. del Río, "Estudio Comparativo de Procedimientos de Clasificación para un sistema de identificación de locutores", VII Symposium Nacional de la Unión Científica Internacional de Radio, URSI-92, Málaga, 1992.
47. J. Ortega-García, F. J. Casajús, L. Hernández, "Conmutador Activado por Voz con Reconocimiento de Palabras", VI Symposium Nacional de la Unión Científica Internacional de Radio, URSI-91, Vol. 2 pp. 807-811, Cáceres 1991.

## **Projects and Contracts**

### **Participation in European Projects and Actions**

Title: **BEAT: Biometrics Evaluation and Testing**  
Type: STREP, FP7 CP-FP, SEC-2011.5.1-1-284989  
Duration: March 2012 – February 2016

Title: **TABULA RASA – Trusted Biometrics under Spoofing Attacks**  
Type: STREP, FP7-ICT-257289, EU - Specific Program “Cooperation”  
Duration: November 2010 – October 2013  
Number of participating institutions: 12

Title: **BBfor2: Biometrics for Forensics**  
Type: Marie Curie Initial Training Network, European Commission, FP7 People.  
Duration: January 2010 – December 2013  
Number of participating institutions: 9

Title: **COST IC1106, “Information and Communication Technologies Integrating Biometrics and Forensics for the Digital Age”**  
Action Domain: Telecommunications Information Science and Technology  
Type: **COST Action**, Intergovernmental Framework for European Cooperation in the Field of Technical and Scientific Research  
Level of Participation: Javier Ortega-Garcia, Spanish Participant  
Duration: December 2011 – November 2015

Title: **BioSecure NoE, “Biometrics for Secure Authentication”, FP6-IST-507634**  
Type: **Network of Excellence (NoE)**, FP6, IST, ICT for Trust and Security  
Duration: June 2004 – September 2007  
Number of participating institutions: 29  
**Javier Ortega-Garcia**, member of the NoE Steering Board

Title: **BIOSEC IP, “Biometrics and Security”, IST-2002-001766**  
Type: **Integrated Project (IP)**, FP6, IST, ICT for Trust and Security  
Duration: December 2003 – November 2005  
Number of participating institutions: 25

Title: **COST-2101, “Biometrics for Identity Documents and Smart Cards”**  
Action Domain: Telecommunications Information Science and Technology

Type: **COST Action**, Intergovernmental Framework for European Cooperation in the Field of Technical and Scientific Research

Adhering Countries: 20

Level of Participation: Javier Ortega-Garcia, Spanish Nacional Representative (out of 3)

Duration: July 2006 – December 2010

Title: “**SAFE**: Secure-Access Front End”, IST-1999-20959

Funding Institution: V FP, TRIAL Start-Up Action

Prime Contractor: Telefónica Investigación y Desarrollo

Duration: December 2000 – June 2002.

Financiación: 71.277 €, Subproyecto UPM

### **Public Competitive National Projects (last 5 years)**

Title: “**COGNIMETRICS**: Cognitive Biometric Authentication”

National R&D Program (TEC2015-70627-R)

Principal Investigator: Javier Ortega-Garcia

Duration: January 2015 – December 2017

Funding: €280,720

Title: “**BIO-SHIELD**: Countermeasures and Performance Evaluation in Biometric Systems under Security Attacks”

National R&D Program (TEC 2012-34881)

Principal Investigator: Javier Ortega-Garcia

Duration: January 2012 – December 2015

Funding: €192,500

Title: “**TERASENSE**: Terahertz Technology for Electromagnetic Sensing Applications”

CONSOLIDER Program, National R&D Program (CSD2008-00068)

Leader Universidad Autonoma de Madrid Sub-Project: Javier Ortega-Garcia

Duration: October 2008 – October 2014

Funding: €146,000

Title: “**CONTEXTS**: Concepts and Technologies for Development of Services”

R&D Program, Madrid Regional Program (S2009/TIC-1485)

Leader Universidad Autonoma de Madrid Sub-Project: Javier Ortega-Garcia

Duration: January 2010 – December 2013

Funding: €203,868

Title: “**BIO-CHALLENGE**: Critical Aspects of Last-Generation Biometric Recognition”

National R&D Program (TEC2009-11186)

Principal Investigator: Javier Ortega-Garcia

Duration: January 2010 – December 2012

Funding: €176,539

## **R&D Contracts (last 5 years)**

Title: **“Cognitive Analytics for Biometric Signature Authentication in Banking Scenarios”**

Principal Investigator: Javier Ortega-Garcia

Contractor: CECABANK

Duration: October 2016 – September 2021

Title: **“BIOTRACE\_100: High-Performance Biometric Signature Authentication System for Banking Applications”**

Principal Investigator: Javier Ortega-Garcia

Contractor: CECABANK

Duration: April 2015 – June 2016

Title: **“Signal Processing for Mobile Applications”**

Principal Investigator: Javier Ortega-Garcia / Joaquin Gonzalez-Rodriguez

Contractor: Telefónica Internacional

Duration: January 2010 - December 2014

Title: **“e-BioSign: Algorithmic Improvement of Digitized Signature Matching”**

Principal Investigator: Javier Ortega-Garcia

Contractor: CECABANK

Duration: April 2014 – January 2015

## **PhD Theses**

- Ruben Tolosana, *“Disruptive Approaches to Handwriting and Signature Authentication for Security-Enhanced Schemes”*, Universidad Autonoma de Madrid (under completion).
- Javier Galbally, *“Vulnerabilities and Attack Protection in Security Systems Based on Biometric Recognition”*, Universidad Autonoma de Madrid, January 2010.
  - Doctor Europaeus mention
  - “Cum Laude” distinction
  - Best PhD Thesis, Universidad Autonoma de Madrid
- Fernando Alonso-Fernandez, *“Biometric Sample Quality and Its Application to Multimodal Authentication Systems”*, Universidad Politecnica de Madrid, October 2008.
  - Doctor Europaeus mention
  - “Cum Laude” distinction
  - Best PhD Thesis, Universidad Politecnica de Madrid
- Julián Fierrez, *“Adapted Fusion Schemes for Multimodal Biometric Authentication”*, Universidad Politecnica de Madrid, July 2006.
  - Doctor Europaeus mention
  - “Cum Laude” distinction

- Best PhD Thesis, Universidad Politecnica de Madrid
- Santiago Cruz-Llanas, *"Audio and Video Signal Integration for Biometric Recognition"*, Universidad Politecnica de Madrid, May 2005.
  - "Cum Laude" distinction
- Carlos Vivaracho, *"Adapted Fusion Schemes for Multimodal Biometric Authentication"*, Universidad de Salamanca, February 2004.
  - "Cum Laude" distinction
- Danilo Simon-Zorita, *"Automatic Biometric Recognition of Fingerprint Patterns"*, Universidad Politecnica de Madrid, January 2004.
  - "Cum Laude" distinction