Comisión Interministerial de Ciencia y Tecnología

Curriculum vitae

Name: FRANCESC JOSEP FERRI RABASA

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Lastname:	Ferri Rabasa	Firstname:	Francesc Josep
DNI:	73 546 684 K	Birth:	2/July/1964
email:	francesc.ferri@uv.es	Institution:	Universitat de València

| Position:	Catedrático de Universidad (Full professor) from 2008
Center:	Dept. Informàtica. Escola Tècnica Superior d'Enginyeries.
Address:	Dr. Moliner, 50 46100 Burjassot

1   Best recent journal papers

[1] M. Arevalillo-Herráez, **F.J. Ferri**, y J. Domingo. A naive relevance feedback model for content-based image retrieval using multiple similarity measures. *Pattern Recognition*, 43(3). pp. 619–629, 2010.   IF:
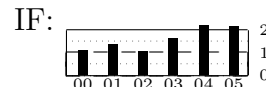
[2] M. Arevalillo-Herráez, **F.J. Ferri**, y J. Moreno-Picot. Distance-based relevance feedback using a hybrid interactive genetic algorithm for image retrieval. *Applied Soft Computing*, (aceptado), 2010.   IF:
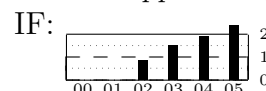
[3] M. Arevalillo, J. Domingo, y **F.J. Ferri**. Combining similarity measures in content-based image retrieval. *Pattern Recognition Letters*, 29(16), pp. 2174–2181, 2008.   IF:
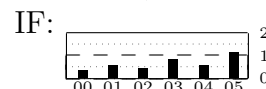
[4] J. Gutiérrez, **F.J. Ferri**, y J. Malo. Regularization operators for natural images based on non-linear perception models. *IEEE Transactions on Image Processing*, 15(1) pp.189–200 , 2006.   IF:
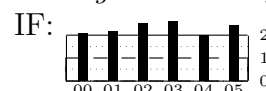
[5] R. Barandela, **F.J. Ferri**, J.S. Sánchez. Decision boundary preserving prototype selection for nearest neighbor classification. *International Journal on Pattern Recognition and Artificial Intelligence*, 19(6), pp.787–806, 2005.   IF:
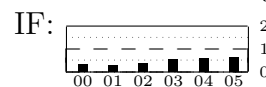
[6] R.A. Mollineda, **F.J. Ferri**, y **E. Vidal**. An efficient prototype merging strategy for the condensed 1-NN rule through class-conditional hierarchical clustering. *Pattern Recognition*, 35(12), pp.2771–2782, 2002.   IF as in [1]
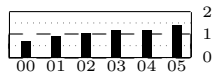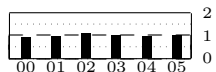
[7] R.A. Mollineda, **F.J. Ferri**, y **E. Vidal**. A merge-based condensing strategy for multiple prototype classifiers. *IEEE Transactions on Systems, Man and Cybernetics. Part B*, 32(5), pp.662–668, 2002.   IF:
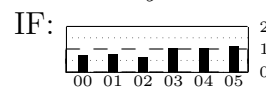
[8] J. Malo, J. Gutiérrez, I. Epifanio, **F.J. Ferri**, y J.M. Artigas. Exploiting perceptual feedback in multigrid motion estimation using an improved dct quantization. *IEEE Transactions on Image Processing*, 10(10) pp.1411–1427, 2001.   IF as in [4]

[9] **V. Cerverón** y **F.J. Ferri**. Another move towards the minimum consistent subset: A tabu search approach to the condensed nearest neighbor rule. *IEEE Transactions on Systems, Man and Cybernetics. Part B*, 31(3), pp.408–413, 2001.   IF as in [7]

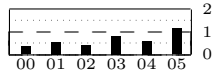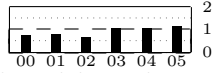[10] J. Malo, **F.J. Ferri**, **J. Albert**, J. Soret, y J.M. Artigas. The role of perceptual contrast non-linearities and amplitude statistics in image vector quantizer performance. *Image and Vision Computing*, 18(3), pp.233–246, 2000.   IF:

[11] J. Malo, **F.J. Ferri**, J. Gutierrez, y I. Epifanio. Importance of quantizer design compared to optimal multigrid motion estimation in video coding. *Electronics Letters*, 36(9), pp.807–809, 2000.   IF:

[12] J. Malo, J. Gutierrez, I. Epifanio, y **F.J. Ferri**. Perceptually weighted optical flow for motion-based segmentation in MPEG-4 paradigm. *Electronics Letters*, 36(20), pp.1693–1694, 2000.   IF as in [12]

2   Most cited papers in journal/conferences

[1] **F.J. Ferri**, P. Pudil, M. Hatef, J. Kittler. Comparative study of techniques for large-scale feature selection. Pattern Recognition in Practice IV, (E. S. Gelsema y L.N. Kanal, eds.), pp.403–413, 1994
Citations: 30 in SCI (16 independent), 57 in GoogleScholar   conferenc book

[2] J.S. Sánchez, F. Pla, **F.J. Ferri**. Prototype selection for the nearest neighbour rule through proximity graphs. Pattern Recognition Letters, 18(6), pp.507-513, 1997
Citations: 18 in SCI (12 independent), 26 in GoogleScholar   IF:

[3] **F.J. Ferri**, **J. Albert**, y **E. Vidal**. Considerations about sample-size sensitivity of a family of edited nearest-neighbor rules. *IEEE Transactions on Systems, Man and Cybernetics. Part B*, 29(5), pp.667–672, 1999
Citations: 13 in SCI (10 independent), 16 in GoogleScholar   IF:

[4] J.S. Sánchez, F. Pla, y **F.J. Ferri**. On the use of neighbourhood-based non-parametric classifiers. *Pattern Recognition Letters*, 18(11-13), pp. 1179–1186, 1997
Citations: 14 in SCI (8 independent), 15 in GoogleScholar   IF as in [2]

[5] **F.J. Ferri** y E. Vidal. Colour image segmentation and labelling through multiedit-condensing. *Pattern Recognition Letters*, 13(8), 1992.
Citations: 9 in SCI (8 independent), 15 in GoogleScholar   IF as in [2]

[6] **F.J. Ferri**, V. Kadirkamanathan, y J. Kittler. Feature subset search using genetic algorithms. IEE/IEEE Workshop on Natural Algorithms in Signal Processing (NASP'93), pp.23/1–23/7, Chelmsford, UK, 1993.
Citations: 4 in SCI (3 independent), 13 in GoogleScholar   proceedings

[7] **F.J. Ferri** y E. Vidal. Small sample size effects in the use of editing techniques. 12th IEEE International Conference on Pattern Recognition, pp.607–610, The Hague, 1992.
Citations: 5 in SCI ($\boxed{2}$ independent), $\boxed{7}$ in GoogleScholar $\boxed{\text{proceedings}}$

[8] Pudil, P. **Ferri, F.J.** Novovicova, J. Kittler, J. Floating search methods for feature selection with nonmonotoniccriterion functions Proc. of 12th ICPR, Vol. B, pp.279–283, 1994.
Citations: $\boxed{35}$ in GoogleScholar $\boxed{\text{proceedings}}$

3 Best recent invited talks

[1] "Some recent developments in prototype-based classification" Pattern Recognition and Image Processing (PRIP) Seminars, Dept. Computer Science and Engineering, Michigan State University, East Lansing, 4 de Abril 2005. `http://www.cse.msu.edu/prip/Seminar/seminarS05.html`

4 Best recent conference presentations

[1] AUTORES (p.o. firma): W. Díaz-Villanueva, **F.J. Ferri**, y V. Cerverón.
TÍTULO: Learning improved feature rankings through decremental input pruning for support vector based drug activity prediction.
REF. REVISTA/LIBRO: *Lecture Notes in Computer Science. Vol. ????*, (N. García-Pedrajas et al., ed.), PÁG.: (aceptado),
FECHA: 2010, EDITORIAL: Springer-Verlag. CLAVE: CL

[2] AUTORES (p.o. firma): M. Arevalillo-Herráez y **F.J. Ferri**.
TÍTULO: Interactive image retrieval using smoothed nearest neighbour estimates.
REF. REVISTA/LIBRO: *Structural, Syntactic and Statistical Pattern Recognition. Lecture Notes in Computer Science. Vol. 6218*, (E. Hancock et al., ed.), PÁGS.: 708–717,
FECHA: 2010, EDITORIAL: Springer-Verlag. CLAVE: CL

[3] AUTORES (p.o. firma): K. Díaz-Chito, **F.J. Ferri**, y W. Díaz-Villanueva.
TÍTULO: An empirical evaluation of common vector based classification methods and some extensions.
REF. REVISTA/LIBRO: *Structural, Syntactic and Statistical Pattern Recognition. Lecture Notes in Computer Science. Vol. 5342*, (N. da Vitoria Lobo et al., ed.), PÁGS.: 977–985,
FECHA: 2008, EDITORIAL: Springer-Verlag. CLAVE: CL

[4] M.J. Castro, W. Díaz, **F.J. Ferri**, J. Ruiz-Pinales, R. Jaime-Rivas, F. Blat, S. España, P. Aibar, S. Grau, y D. Griol. A holistic classification system for check amounts based on neural networks with rejection. *Intl. Conference on Pattern Recognition and Machine Intelligence*, (S.K. Pal, S. Bandyopadhyay, y S. Biswas, eds.), pp.310–314, India, 2005.

[5] N. Monekosso, P. Remagnino, y **F.J. Ferri**. Learning Machines for Chance Discovery. *16th International Conference on Artificial Intelligence. Workshop on Chance Discovery*, pp.84–93, Valencia, 2004.

[6] J. Gutierrez, J. Malo, y **F.J. Ferri**. Perceptual regularization functionals for natural image restoration. *IEEE International Conference on Image Processing*, Vol 2, pp.989–992, Barcelona, 2003.

[7] **F.J. Ferri**, R.A. Mollineda, y E. Vidal. An experimental comparison between consistency-based and adaptive prototype replacement schemes. 16th IEEE International Conference on Pattern Recognition, Vol. 3, pp.41–44, Quebec, 2002.

[8] J. Gutierrez, E. De Ves, I. Epifanio, y **F.J. Ferri**. An active contour model for the automatic detection of the fovea in fluorescein angiographies. 15th IEEE International Conference on Pattern Recognition, Vol. 4, pp.312–315, Barcelona, 2000.

[9] J. Malo, **F.J. Ferri**, R. Navarro, y R. Valerio. Perceptually and statistically decorrelated features for image representation: Application to transform coding. 15th IEEE International Conference on Pattern Recognition, Vol. 3, pp.242–245, Barcelona, 2000.

[10] R.A. Mollineda, **F.J. Ferri**, y E. Vidal. A cluster-based merging strategy for nearest prototype classifiers. 15th IEEE International Conference on Pattern Recognition, Vol. 2, pp.759–762, Barcelona, 2000.

5 Best recent competitive research projects

[1] Técnicas interactivas y adaptativas para sistemas automáticos de reconocimiento, aprendizaje y percepción. CICYT, (TIN2009-14205-C04-03), 83.200 Eur. Univ. València, U. Politècnica de Valencia, Universitat d'Alacant, Universitat Jaume I. **Francesc J. Ferri (IP)**, 2009–2012.

[2] Aplicaciones del reconocimiento de formas a la automatización del control de calidad y otros procesos industriales. CICYT, (DPI2006-15542-C04-04), 45.000 Eur. Univ. València, U. Politècnica de Valencia, Universitat d'Alacant, Universitat Jaume I. **F. J. Ferri (IP)**,2006-2008.

[3] Tratamiento, indexación y recuperación de información a partir de grandes volúmenes de datos mediante reconocimiento de formas. CICYT, (TIC2003-08496-C04-01), 38.400 Eur. Univ. València, U. Politècnica de Valencia, Universitat d'Alacant, Universitat Jaume I. **F. J. Ferri (IP and Coordinator)**, 2004–2006.

[4] Técnicas avanzadas de reconocimiento de formas y sus aplicaciones en procesos industriales y comerciales. CICYT, (TIC2000-1703-C03-03), 4 Mpts. Universitat Jaume I. José S. Sánchez Garreta (IP), 2001–2003.

[5] Compresión eficiente de video en color mediante el análisis de secuencias basado en modelos y representaciones cromáticas perceptualmente significativas. FEDER-CICYT, (TIC-1FD97-0279), 19 Mpts. Universitat de València. **Francesc J. Ferri (IP)**, 1999–2001.

[6] Sistemas de visión activos y pasivos para la monitorización y seguimiento de objetivos móviles. CICYT, (TIC98-677-C02-02), 3.5 Mpts. Universitat de València. **Francesc J. Ferri (IP)**, 1998–2001.

[7] Estimación de movimiento e interpretación de secuencias de imágenes. aplicaciones en control de tráfico. CICYT, (TIC95-676-C02-01), 10.0 Mpts. Universitat de València, Universitat Jaume I. **Francesc J. Ferri (IP)**, 1995–98.

6 Most relevant research stays

[1] Pattern Recognition and Image Processing (PRIP) lab (Anil K. Jain). Michigan State University, USA. 2/2005–9/2005.

[2] Digital Imaging Research Center (DIRC) (P. Remagnino). Kingston University, UK. 10/2004–2/2005.

[3] Pattern Recognition group (P. Pudil). Academy of Sciences of the Czech Rep. 3/1994–4/1994.

[4] Vision, Speech and Signal Processing (VSSP) group (J. Kittler). University of Surrey, UK. 1/1993–12/1993.

7 Recent PhD thesis advised

[1] Juan Gutiérrez Aguado. Non linearities in contrast perception and applications in image restoration and motion estimation. Universitat de Valencia, 2005.

[2] Jose Martínez Sotoca. Image analysis techniques for diagnostic evaluation of human back deformations. Universitat de Valencia, 2001.

[3] Ramon A. Mollineda Cardenas. Hierarchical clustering techniques for prototype selection and distance-based classification. Use of cyclic strings. Universitat Politecnica de Valencia, 2001.

[4] Jesús Malo López. Redundancy elimination in human visual system: New formulation and applications in Image and Video Coding. Universitat de Valencia, 1999.

[5] José S. Sánchez Garreta. Learning and classification based in neighbourhood criteria. Alternative methods and comparative analysis. Universitat Jaume I, Castellón, 1998.

8   Journal Collaborations

- Pattern Recognition Letters. Reviewer from 1994.

- IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI). Reviewer from 1994.

- IEEE Transactions on Systems, Man and Cybernetics, Part B. Reviewer from 1999.

- Journal of Intelligent and Fuzzy Systems. Reviewer from 2001.

- Pattern Recognition. Guest Editor, 2005.

- Information Sciences. Reviewer from 2005.

9   Other

Relevant Participation in Conferences: IASTED Intl Conf. on Computational Intelligence (CI'06). Session Chair. Intl Workshop on Pattern Recognition in Information Systems (PRIS'02). Session Chair. Intl Conf on Pattern Recognition (IPCR'2000). Session Chair. Joint International Symposium on Statistical, Syntactical and Structural Pattern Recognition (SSSPR'2000). General Chairman. Spanish National Sympsium on Pattern Recognition and Image Analysis, 1992. Local organizer.

Relevant Collaboration with Research Agencies: Spanish agency for research evaluation (ANECA). 1995-. Czech agency for research funding (GAAV). 1999- Dutch research agency (NW-EW). 1997- Spanish Research and Development agency (CYTED). 2006- Valencian agency for I+D (NOEMI-GESTA). 2005-