

Recent CVG Publications

Computer Vision Group^{1*}

¹Department of Computer Science and Artificial Intelligence, University of Granada,
CITIC-UGR, 18071 Granada, Spain

*To whom correspondence should be addressed; E-mail: jags@decsai.ugr.es

Publication Analysis

(*) J. A. García and R. Rodríguez-Sánchez and J. Fdez-Valdivia. Overall prestige of journals with ranking score above a given threshold. To be published by *Scientometrics* (vol. 88) (2011)

(*) J. A. García and R. Rodríguez-Sánchez and J. Fdez-Valdivia. Ranking of the subject areas of Scopus. To be published by *Journal of the American Society for Information Science and Technology* (vol. 62) (2011)

(*) J. A. García and R. Rodríguez-Sánchez and J. Fdez-Valdivia and J. Martínez-Baena. On first quartile journals which are not of highest impact. Submitted to *Scientometrics* (2011)

(*) J. A. García and R. Rodríguez-Sánchez and J. Fdez-Valdivia. Evaluation of journal quartile rankings. Submitted to *Journal of the American Society for Information Science and Technology* (2011)

(*) J. A. García and R. Rodríguez-Sánchez and J. Fdez-Valdivia. The overall prestige

gap of journals with ranking score below a given threshold. Submitted to *Journal of Informetrics*. (2011)

Information Fusion Evaluation

(*) J.A. Garcia, Rosa Rodriguez-Sanchez, J. Fdez-Valdivia, Lex Toet. Comparative Visual Efficiency of Image Fusion Methods. *International Journal of Image and Data Fusion*, vol. 2, pp. 1-31. (2011)

(*) R. Rodriguez-Sanchez, J.A. Garcia, J. Fdez-Valdivia, 2011 . From Computational Attention to Image Fusion. To be published by *Pattern Recognition Letters*.

(*) J.A. Garcia, Rosa Rodriguez-Sanchez, J. Fdez-Valdivia, A. Garrido, 2011. Axiomatic Approach to Image Fusion Evaluation. Submitted to *International Journal of Pattern Recognition and Artificial Intelligence*.

Attentive Visual Efficiency

(*) J.A. Garcia, R. Rodriguez-Sanchez, J. Fdez-Valdivia, and J. Martinez-Baena. Comparative Visibility Analysis of Advertisement Images. To be published by *Signal Processing: Image Communication*, vol. 26 (2011)

(*) J.A. Garcia, R. Rodriguez-Sanchez, J. Fdez-Valdivia, J. Martinez-Baena. Attention-based approach for ranking web pages. Submitted to *Journal of Visual Communication and Image Representation*, (2011)

(*) J.A. Garcia, R. Rodriguez-Sanchez, and J. Fdez-Valdivia. Attention-based Peak Signal-to-Noise Ratio. Submitted to *Pattern Recognition Letters*, (2011)

(*) R. Rodríguez-Sánchez and J. Fdez-Valdivia and J. A. García. Object Removal by exemplar-based Inpainting using the dual-tree wavelet transform. Submitted to *Pattern Recognition Letters* (2011)

J.A. Garcia, R. Rodriguez-Sanchez, and J. Fdez-Valdivia. Axiomatic Approach to Computational Attention. *Pattern Recognition*, vol. 43 (4), pp. 1618-1630. (2010)

J.A. Garcia, R. Rodriguez-Sanchez, J. Fdez-Valdivia, and J. Martinez-Baena. Information Visibility Using Transmission Methods. *Pattern Recognition Letters*, Vol. 31, pp. 609-618. (2010)

<http://cvg.ugr.es/attention>. Web Platform for applications of the Computational Attention Model. (2010)

The Control Theory of Progressive Transmission

(*) J. A. García and R. Rodríguez-Sánchez and J. Fdez-Valdivia and A. Garrido. Analysis of coding risks in progressive transmission. To be published by *Signal Processing: Image Communication* (vol. 26) (2011)

(*) J. A. García and R. Rodríguez-Sánchez and J. Fdez-Valdivia. Sustainable Image Transmission. Submitted to *Journal of Visual Communication and Image Representation* (2011)

J.A. Garcia, Rosa Rodriguez-Sanchez, J. Fdez-Valdivia, “Relevance of knowledge from bit-saving in progressive transmission”, *Journal of Visual Communication and Image Representation*, Vol. 21(7), pp: 741-750, (2010).

J.A. Garcia, Rosa Rodriguez-Sanchez, J. Fdez-Valdivia, “Dynamics of low-cost transmission on the optimal path”, *Optical Engineering*, Vol. 46 (3), DOI: 10.1117/1.2717132, (2007).

J.A. Garcia, Rosa Rodriguez-Sanchez, J. Fdez-Valdivia, “Optimal Exploratory Effort to Build Knowledge for Video Transmission”, *Optical Engineering*, Vol. 46 (4), 047401, (2007).

Rosa Rodriguez-Sanchez, J.A. Garcia, J. Fdez-Valdivia, Antonio Garrido, “Automatic and optimal hierarchical quantizer decomposition to build knowledge for video transmission”, *Optical Engineering*, Vol. 46 (10), doi:10.1117/1.2799092, (2007).

J.A. Garcia, Rosa Rodriguez-Sanchez, J. Fdez-Valdivia, “Emergence of a region-based approach to image transmission”, *Optical Engineering*, Vol. 44, 067004, (2005).

Rational Prioritization of Visual Information

J.A. García, R. Rodríguez-Sánchez, and J. Fdez-Valdivia, “Justice in quantizer formation for rational progressive transmission,” *Opt. Eng.*, Vol. 43(9), pp. 2105-2119, (2004).

J.A. García, R. Rodríguez-Sánchez, and J. Fdez-Valdivia, “An embedded coder providing better image quality at very low bit rates,” *Opt. Eng.*, Vol. 43(3), pp. 615-627 (2004).

R. Rodríguez-Sánchez, J. Fdez-Valdivia, A. Toet, and J.A. García, “The relationship between information prioritization and visual distinctness in two progressive image transmission schemes,” *Pattern Recognit.*, Vol. 37(2), pp. 281-297 (2004).

J.A. Garcia, R. Rodriguez-Sanchez, and J. Fdez-Valdivia, *Progressive image transmission: The role of rationality, cooperation and justice*, SPIE Optical Engineering Press, PM-140, Bellingham, Washington USA, (2004).

J.A. García, R. Rodríguez-Sánchez, J. Fdez-Valdivia, and X. R. Fdez-Vidal, “CORAL: Collective rationality for the allocation of bits,” *Opt. Eng.*, Vol. 42(4), pp. 1000-1012 (2003).

J.A. García, R. Rodriguez-Sánchez, J. Fdez-Valdivia, and J. Martinez-Baena, "Self-control of quantizers' risk attitude in rational embedded wavelet image coding" *Opt. Eng.*, Vol. 42(11), pp. 3215-3234. (2003)

J.A. García, R. Rodriguez-Sánchez, J. Fdez-Valdivia, and X. R. Fdez-Vidal, "Rational systems exhibit moderate risk aversion with respect to 'gambles' on variable-resolution compression," *Opt. Eng.*, Vol. 41(9), pp. 2216-2237 (2002).

J.A. García, J. Fdez-Valdivia, X. R. Fdez-Vidal, and R. Rodriguez-Sánchez, "Information theoretic measure for visual target distinctness," *IEEE Trans. Patt. Anal. Mach. Intell.*, Vol. 23(4), pp. 362-383 (2001).

Computational Models for Predicting Visual Distinctness

J.A. García, J. Fdez-Valdivia, X. R. Fdez-Vidal, and R. Rodriguez-Sánchez, "Information theoretic measure for visual target distinctness," *IEEE Trans. Patt. Anal. Mach. Intell.*, Vol. 23(4), pp. 362-383 (2001).

J.A. Garcia, J. Fdez-Valdivia, X.R. Fdez-Vidal, and R. Rodriguez-Sanchez, *Computational models for predicting visual target distinctness*, SPIE Optical Engineering Press, PM-95, Bellingham, Washington USA, (2001).

Xose R. Fdez-Vidal, A. Toet, J.A. Garcia, J. Fdez-Valdivia, "Computing visual target distinctness through selective filtering, statistical features, and visual patterns," *Optical Engineering*, vol. 39 (1), pp. 267-281, (2000).

Xose R. Fdez-Vidal, J.A. Garcia, J. Fdez-Valdivia, and R. Rodriguez-Sanchez, "Defining the notion of visual pattern for predicting visual target distinctness in a complex rural background," *Optical Engineering*, vol. 39 (2), pp. 415-429, (2000)

Xose R. Fdez-Vidal, J.A. Garcia, J. Fdez-Valdivia, and A. Garrido, “Using models of feature perception in distortion measure guidance,” *Pattern Recognition Letters*, vol. 19 (1), pp. 77-88, (1998).

Xose R. Fdez-Vidal, J.A. Garcia, J. Fdez-Valdivia, Rosa Rodriguez-Sanchez, “The role of integral features for perceiving image discriminability,” *Pattern Recognition Letters*, vol. 18, pp. 733-740, (1997).

Acknowledgments. Papers marked with * are sponsored by the Spanish Board for Science and Technology (MICINN) under grant TIN2010-15157 cofinanced with FEDER funds..