



Europass Curriculum Vitae

Personal information

Surname(s) / First name(s) **De LUIS GARCÍA, RODRIGO**
Address(es) ETSI Telecomunicación, Campus Miguel Delibes, s/n, 47011, Valladolid, SPAIN
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E-mail rodlui@tel.uva.es
Nationality Spanish
Date of birth 07.12.1978

Short Bio

Rodrigo de Luis-García is an assistant professor at University of Valladolid, Spain. He received his Engineering of Telecommunication degree from that university in 2002, and has just finished his PhD dissertation, which he will be defending next April. He is a research affiliate at the LPI (Valladolid, Spain), where he participates in several regional, national and international funded research projects. His research interests are related to the field of medical image processing. Specifically, he has worked in the segmentation of different medical image modalities. He is currently interested in tensor field processing with application to image analysis, specially the segmentation of anatomical structures from DT-MRI and the use of the LST for the segmentation of natural images. Rodrigo is author or co-author of several international journal and conference papers. He has also acted as a reviewer for several international journals, and was awarded with a Marie Curie Fellowship from the European Commission for a four-month stay at INRIA-Sohia Antipolis.

Education and training

| | |
|--|--------------------------------------|
| Dates | (Expected) April 2007 |
| Title of qualification awarded | PhD |
| Name and type of organisation providing education and training | University of Valladolid |
| Dates | 2002 |
| Title of qualification awarded | MEng. Telecommunications Engineering |
| Name and type of organisation providing education and training | University of Valladolid |

Positions

| | |
|-----------------|---|
| Dates | 2002 – 2003 |
| Occupation | PhD Student Grant at University of Valladolid |
| Main techniques | Medical Image Segmentation |
| Dates | 2003 – Today |
| Occupation | Assistant Professor, University of Valladolid |
| Main techniques | Medical Image Segmentation, Tensor Field Processing |

Teaching

| | |
|--------|------------------------------------|
| Dates | Oct 2003 – Today |
| Course | Linear Systems |
| Dates | Oct 2003 – Today |
| Course | Analysis and Synthesis of Circuits |

| | |
|--------|---|
| Dates | Oct 2003 – Fed 2005 |
| Course | Telecommunication Systems IV (Television Systems) |
| Dates | Oct 2006 – Today |
| Course | Discrete Signal Processing I (Image Processing) |

Publications

| | |
|------------|--|
| Journal | <p>R. de Luis-García, R. Deriche, M. Rousson, C. Alberola-López, "Tensor processing for texture and colour segmentation", <i>Lecture Notes in Computer Science</i>, num. 3540, 1117-1127, 2005</p> <p>R. de Luis-García, C. Alberola-López, "Hip joint segmentation for the diagnosis of developmental dysplasia of the hip using dynamic shape priors", <i>WSEAS Transactions on Signal Processing</i>, vol. 3, num. 1, pp. 432-438, 2005.</p> <p>E. Muñoz-Moreno, R. Cárdenes-Almeida, R. de Luis-García, M. A. Martín-Fernández, C. Alberola-López, "Image registration based on automatic detection of anatomical landmarks for bone age assessment", <i>WSEAS Transactions on Computers</i>, vol. 4, num. 11, pp. 1596-1603, 2005.</p> <p>S Aja-Fernández; R. de Luis-García; Miguel Ángel Martín-Fernández; C. Alberola-López, "A computational TW3 classifier for skeletal maturity assessment. A Computing with Words approach", <i>Journal of Biomedical Informatics</i>, vol. 37, pp. 99-107, 2004.</p> <p>R. de Luis-García, C. Alberola-López, Otman Aghzout y J. Ruiz Alzola, "Biometric Identification Systems", <i>Signal Processing</i>, vol 83, num 12, pp. 2539-2557, December 2003.</p> <p>E. Muñoz-Moreno, S. Rodríguez, A. Vilora, P. Lamata, M.A. Martín-Fernández, R. de Luis-García, S. Aja-Fernández, E.J. Gómez, C. Alberola-López, "Detección de colisiones. Un problema clave en la simulación quirúrgica". <i>Informática y Salud (I+S)</i>, vol. 48, pp. 23-35, October 2004</p> |
| Conference | <p>V. García-Pérez, E. Muñoz-Moreno, R. de Luis-García, C. Alberola-López, "A 3D collision handling algorithm for surgery simulation based on feedback fuzzy logic", Proc. of the IEEE EMBS International Conference on Information Technology Applications in Biomedicine (ITAB'06), Ioannina, Greece, October 2006.</p> <p>R. de Luis-García, C. Alberola-López, "Parametric 3D Hip Joint Segmentation for the Diagnosis of Developmental Dysplasia", Proc. of the International Conference of the IEEE Engineering in Medicine and Biology Society, New York, USA, September 2006.</p> <p>J. P. Casaseca de la Higuera, R. de Luis-García, F. Simross-Watenberg, C. Alberola-López, "Weaning from mechanical ventilation: feature extraction from a statistical signal processing viewpoint", Proc. of the 13th European Signal Processing Conference (EUSIPCO 2005), Antalya, Turkey, September 2005.</p> <p>R. de Luis-García, R. San José Estépar, C. Alberola-López, "Pull-Push Level Sets: A new term to encode prior knowledge for the segmentation of teeth images", Proc of the SPIE Medical Imaging 2005, San Diego, USA, February 2005.</p> <p>R. de Luis-García, M. Martín-Fernández, J. I. Arribas-Sánchez, C. Alberola-López, "A Fully Automatic Algorithm for Contour Detection of Bones in Hand Radiographs Using Active Contours", Proc. of the IEEE International Conference on Image Processing, Barcelona, Spain, September 2003.</p> <p>R. de Luis-García, M. Martín-Fernández, M. A. Martín-Fernández, C. Alberola-López, "A Model-Based Algorithm for the Automatic Segmentation of Metacarpals in Hand-Wrist Radiographs using Active Contours", Proc. of the Third Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, CAOS-2003, Marbella, Spain, June 2003.</p> <p>R. de Luis-García, J. I. Arribas-Sánchez, S. Aja-Fernández, C. Alberola-López, "A neural architecture for bone age assessment", Proc. of the IASTED Conference on Signal Processing, Pattern Recognition, and Applications, Crete, Greece, June 2002.</p> |

Personal skills and competences

Mother tongue(s)

Spanish

Other language(s)

Self-assessment

European level ()*

English

French

| Understanding | | | | Speaking | | | | Writing | |
|------------------|------------------|----------------|------------------|---------------------------|------------------|--------------------------|------------------|---------|------------------|
| <i>Listening</i> | | <i>Reading</i> | | <i>Spoken interaction</i> | | <i>Spoken production</i> | | | |
| C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user |
| B2 | Independent user | B2 | Independent user | B2 | Independent user | B2 | Independent user | B2 | Independent user |

() Common European Framework of Reference for Languages*

Preferred Projects on eINTERFACE'07

Name: **Multi-Approach DT-MRI Data Analysis & Visualization Platform**

Skills to offer: I have a background in tensor processing. I have worked on the use of the local structure tensor, in combination with the intensity, for the segmentation of textured images. This has been applied also to the segmentation of 2D and 3D medical images. More recently, I have been also working in the segmentation of anatomical structures from DT-MRI images.

Name: **USIMAG Tool: A software for real-time Elastography and Tensorial Elastography**

Skills to offer: I have some knowledge on elastography as this technique is part of the activities to be performed within a national research project at my laboratory.

Name:

Skills to offer: