CURRICULUM VITAE OF THE APPLICANT

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University studies and diplomas

- Since December 1993 preparation of a PhD Thesis in Computer Science, on Medical Image Understanding at INRIA, EPIDAURE project. HCM fellowship.
- **1993** DEA: "La théorie et la pratique de la Vision artificielle et de la Robotique" (Master degree). Nice University, Faculty of Science, France.
- **1992** Degree: "Licenciatura en Informática", (equivalent of BSC Computer Science plus Diploma of Engineering: 5 years plus 1 year of project). Polytechnic University of Valencia, Faculty of Computer Science, Spain.
- **1991** Master CAD/CAM, (Master of Science), 500 hours. Polytechnic University of Valencia, Superior School of Industrial Engineering, Spain.

Professional Experience

- **1993** DEA Research Project at INRIA. Subject: "Matching of medical 3D-images". INRIA-COMETT fellowship, France.
- **1991-1992** IMPIVA (Instituto de la Mediana y Pequeña Empresa de Valencia) fellowship. Subject: "Informática de Sistemas":
  - Image Processing experience at AIDO (Asociación de investigacion en óptica), Valencia, Spain. (10 months).
  - Computer Vision experience at INRIA Sophia Antipolis, France. (1 month).
- **1990-1991** Polytechnic University of Valencia, Faculty of Computer Science. Project for completion of Engineering Diploma. Subject: "Parallel Algorithms and Parallel Architectures", Spain.

Relevant scientific techniques and skills adquired

- Medical Image Understanding (Multimodal registration, Object representation, Mathematical morphology, Discrete topology), Computer Vision (Image processing tools, Segmentation, Filtering, Pattern recognition,etc) and System theory and Control.
- Computer Science Theory: Software Engineering, Computer Network, Computer Architerture, Operating Systems, etc.
- Progamming Languages: C, C++, Lisp, ADA, Pascal, DBASE IV, etc.
- Operating Systems: Unix System V, OS/DOS, VAX, etc.
- Systems and workstations: Sun OS 4.0, DEC ULTRIX, DEC OSF 1.0, ALPHA DEC Stations
- Multimedia Softwares: Window Managers, Mosaic/Netscape.

Publications

- "Topologically correct skeleton in n-D." G. Malandain and S. Fernández. To appear in the proceedings of *5th colloquium on Discrete Geometry for Computer Imagery (DGCI'95)*, September 1995.
- "Digital euclidean skeleton in n-D." S. Fernández and G. Malandain. In *9th Scandinavian Conference on Image Analysis (SCIA'95)*, volume 1, pages 517-524, June 95.
- "Physically based rigid registration of 3-D free-form objects". G. Malandain, S. Fernández and J.M. Rocchisani. INRIA Technical Report RR 2453, INRIA, 2004 route des Lucioles, January 1995.
- "Mise en correspondance d'objets 3D par une approche mécanique: application aux images médicales multimodales". G. Malandain, S. Fernández and J.M. Rocchisani. In *Traitement du Signal*, volume 11:6, pages 541-558, 1994.
- "Rigid Registration of 3D Objets by Motion Analysis". G. Malandain, S. Fernández and J.M. Rocchisani. In *12th International Conference on Pattern Recognition (ICPR'94)*, pages 579-581. Jerusalem, October 9-13 1994. IAPR.

- "Improving Registration of 3-D Medical Images Using a Mechanical Based Method". G. Malandain, S. Fernández and J.M. Rocchisani. In *3rd European Conference on Computer Vision (ECCV'94)*, pages 131-136, Stockholm, May 2-6 1994. Lecture Notes in Computer Science 801.
- Memory of final project for Engineering Diploma, title "Parallel Algorithms for Distributed and Shared Memory to solve the Least Squares Problem". Faculty of Computer Science, Spain.

Foreign languages

- French: spoken, written.
- English: spoken, written.