

Gabriela Gallegos Garrido

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Nationality: Mexican

Date of Birth: 28 July 1980

Objectives

My main research interest is to develop algorithms for computer vision and experimental prototypes for robotics and automatic control applications. I have a strong interest in teaching at college and university level, playing an active role in the education and training of future researchers and engineers. I have the conviction that science can be taught in a rigorous way while at the same time being enjoyable and accessible to students.

Education

- 2006-to date** **INRIA-Sophia Antipolis Méditerranée (France)** **PhD**
Thesis: *SLAM Based on Multimodal Sensor-Based Navigation Functions*, under the supervision of **Patrick Rives** in the **ICARE/ARobAS** project-team.
Financed by a **CONACYT** (México) Grant
- 2002-2005** **Research and Advanced Studies Center of the National Polytechnic Institute of México (CINVESTAV-IPN)**
Master in Automatic Control
Thesis: *Multi-grid convergence properties of continuous and discrete skeletons generated by thinning*, under the supervision of **Petra Wiederhold** in the **Automatic Control** department
Financed by a **CONACYT** (México) Grant
- 1998-2002** **Universidad Autónoma de San Luis Potosí (México)**
B.Sc in Electronic Engineering
Thesis: *Design of an AC/DC converter to control a CD motor speed*, under the supervision of **Daniel Ulises Campos Delgado** in the **Faculty of Sciences**

Academic and Profesional Experience

- 2004-2006** **San Luis Potosí Institute of Scientific Research and Technology (IPICYT), (México)** **Research and Development**
Position: Academic technician in the **applied mathematics division**.
Mission: Responsible for the robotics and motion control laboratory.
Project: Design and construction of a two degrees of freedom manipulator, under the supervision of **David Antonio Lizárraga Navarro** and **Arturo Zavala Río**.

2001
(24/06-10/08)

Internship at CINVESTAV-IPN

Research and Development

Development of a virtual Pioneer Mobile Robot on VRML, under the supervision of **Juan Manuel Ibarra Zannatha**

Publications

Conferences

G.Gallegos, M.Meilland, P.Rives and A.I. Comport. *Appearance-Based SLAM Relying on a Hybrid Laser/Omnidirectional Sensor*. In IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2010, Taipei, Taiwan, October 2010.

G.Gallegos and P.Rives. *Indoor SLAM based on Composite Sensor Mixing Laser Scans and Omnidirectional Images*. In 23rd IEEE International Conference on Robotics and Automation, ICRA 2010, Anchorage, USA, May 2010.

D.U. Campos Delgado, G.Gallegos, S.Martínez Martínez and I.Campos Cantón. *Implementación de un convertidor CA/CD y PID digital para un motor CD*. 2do Congreso Nacional de Mecatrónica, México, DF., November 2003.

Meetings and Invited Talks

- 2010 october** International Conference on Intelligent Robots and Systems, IROS'10, Taipei, Taiwan (Talk)
- 2010 may** International Conference on Robotics and Automation, ICRA'10, Anchorage, USA (Talk)
- 2007 october** Journées Nationales de la Recherche en Robotique, JNRR'07, Obernai, France
- 2008 september** International Conference on Intelligent Robots and Systems, IROS'08, Nice, France
- 2009 june** Congrès des jeunes chercheurs en vision par ordinateur, ORASIS'09, Tregastel, France
- 2004 november** International Workshop "Combinatorial and Computational Aspects of Optimization, Topology and Algebra", CINVESTAV, Guanajuato, México (Talk)
- 2001 june** Summer School on Image and Robotics, LAFMI - Franco-Mexican Laboratory and ITESM, Cuernavaca, Mor., México

Computer Skills

- OS** Linux and Windows
- Mathematical** Matlab, Maple, Mathematica, Rhinoceros (modeler NURBS)
- Coding** C, C++, VRML (Virtual Laboratory), DIAS (Digital Image Analysis System), OpenCv and OpenGL
- Electronics** Labview, Workbench
- Miscellaneous** L^AT_EX, Office and HTML

Languages

Spanish (native language), fluent in **French** (DELF B2, PhD Thesis in France) and **English** (TOEFL 220pts computer, TOEIC 925pts), **German** (basic notions)

Hobbies

- Sports** Soccer, Softball, Ski
- Recreation** Reading, hiking, camping, music, movies