

Ricardo Agamenon Tellez Lara
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PROFESSIONAL AIMS

To become part of a research team, to research and develop real systems with artificial intelligence and artificial cognition.

PROFILE

- Spanish engineer, 33 years old, with a knowledge of French, English and Japanese.
- Six years experience in research and development at industry.
- Deep knowledge of artificial intelligence techniques applied to robotics.
- Ability and initiative to solve problems and quickly acquire new skills. Motivated scientist and hard worker.

ACADEMIC DATA

- Started **Ph.D. in Artificial Intelligence** at the Technical University of Catalonia (U.P.C.), Spain, January 2002
- **Telecommunications Engineer Degree** Technical University of Catalonia (U.P.C.), Spain, December 1994

COMPUTER KNOWLEDGE

- Operating systems: Linux (administration), Unix, DOS and Windows(95,98, NT,2000, XP).
- Programming languages: C, C++, Visual C++, Prolog, HTML, PHP, Perl, Python and assembler for i386. Two years experience with the G2/Gensym environment.
- Linux programming environment: X-Windows, GTK+, gcc, make, SDL, KDevelop, Anjuta, Glade, Scilab.
- Knowledge about the HTK speech recognition environment for Unix.
- Basic knowledge of Oracle, Microsoft SQL server, MySQL and Apache Web Server. Deep knowledge of Microsoft Access.

LANGUAGES

- **Spanish** and **Catalan**: mother tongue.
- **French** and **English**: high level (fluent speaking and writing). TOEFL: 260 (July 2002)
- **Japanese**: basic-intermediate level. Japanese-Language Proficiency Test (International Nihongo Noryoku Shiken) Level 3 obtained in December 2004.
Winner of the 14th Japanese Public Speaking Competition of Barcelona (May 2005)

RESEARCH, WORKING AND TEACHING EXPERIENCE

Teacher, Technical University of Catalonia, Barcelona, Spain

- Teach a University second summer course on Aibo programming , July 2005.
- Teach a University summer course on Aibo programming , September 2004.

Analyst and Knowledge Engineer, ALG/BeST/PIVETAL Barcelona (Spain), Southampton and Birmingham (U.K.) 2000-2002

- Development in Southampton and Birmingham of an expert system for real time control of switches for the company Cable & Wireless, under the development environment G2.
- Knowledge extraction from Cable & Wireless experts.
- Development of the system, implementation in client offices and writing of documentation.
- Multicultural team.

Technical Manager and Researcher, LUZ NEGRA S.A. Barcelona, Spain 1995-1999

- Creation and direction of the new R&D department for the development of power electronic products related to signs.
- In charge of technical research projects. Research, design and development of 16 different models of electronic ballast; prototypes, production series, electromagnetic compatibility and security tests (CE mark), and documentation.

PUBLICATIONS (all publications available at <http://www.ouroboros.org>)

Journal papers

- L. Holh, R. Téllez, O. Michel and A. Ijspeert, **Aibo and Webots: simulation, wireless remote control and controller transfer**, *Robotics and autonomous systems*, Volume 54, Issue 6, pp 472-485, 2006
- C. Angulo, R. Téllez, and D. Pardo, **Emergent Walking Behaviour in an Aibo Robot**, *ERCIM News 64*, pp. 38-39. ERCIM EEIG, 2006

Book chapters

- O. Vilarroya and R. Téllez, **La madurez de los Aibo** (in Spanish), *Palabra de robot*, Publicacions de la Universitat de València, 2006
- C. Angulo and R. Téllez, **Distributed Intelligence for Smart Home Appliances**, *Tendencias de la Minería de Datos en España. Red Española de Minería de Datos*, Vol: p1-12, 2004

International conferences

- R. Téllez and O. Vilarroya, **Towards an experiences based artificial intelligence** (abstract), *50th Anniversary Summit of Artificial Intelligence*, Monte Verita, Switzerland, 2006.
- R. Téllez, D. Pardo and C. Angulo, **Comparison of synchronous and asynchronous control modes on dynamic control** (abstract), *First URBI Workshop 2006*, Paris, France, 2006.
- R. Téllez, C. Angulo and D. Pardo, **Evolving the walking behaviour of a 12 DOF quadruped using a distributed neural architecture**, *2nd International Workshop on Biologically Inspired Approaches to Advanced Information Technology (Bio-ADIT'2006)*, Osaka, Japan, 2006. Published in *Lecture Notes in Computer Science*, Volume 3853, p. 5 - 19, 2006
- R. Téllez, C. Angulo and D. Pardo, **Completely neural architecture for the general control of autonomous robots**, *European Symposium on Nature-inspired Smart Information Systems*, Albufeira, Portugal, 2005.
- R. Téllez and C. Angulo, **A distributed architecture for sensory-motor coordination** (abstract), in the *3rd International Symposium on Adaptive Motion in Animals and Machines (AMAM'2005)*, Ilmenau, Germany, 2005.
- R. Téllez, C. Angulo and D. Pardo, **Highly modular architecture for the general control of autonomous robots**, in the *8th International Work-Conference on Artificial Neural Networks (IWANN'2005)*, Vilanova i la Geltrú, Spain, 2005. Published in *Lecture Notes in Computer Science*, Volume 3512, p 709, 2005
- R. Téllez and C. Angulo, **Evolving cooperation of simple agents for the control of an autonomous robot**, in the *Proceedings of the 5th IFAC Symposium on Intelligent Autonomous Vehicles (IAV04)*, Lisbon, Portugal, 2004.

National conferences

- R. Téllez and C. Angulo, **Generando un agente robótico autónomo a partir de la evolución de agentes simples cooperativos** (in Spanish), in the *Proceedings of the 5th Workshop on Physical Agents (WAF-2004)*, Girona, Spain, 2004
- R. Téllez and C. Angulo, **Neuro-evolved agent-based cooperative controller for a behavior-based autonomous robot**, in the *Proceedings of the First Workshop on Automatics, Vision and Robotics*, Barcelona, Spain, 2004

Popular science publications

- R. Téllez, **Robots i evolució** (in catalan), in *ACIA Newsletter*, 2004. **Winner** of the honorable mention award at the *1st ACCC competition for the spreading of scientific research*, 2003.

OTHER PROJECTS AND JOBS

- Creator and maintainer of the **Linbot Project** (linbot.sourceforge.net) that provides a robotic platform under Linux to implement evolutionary algorithms with real robots.
- Modifications to the **Webots** evolutionary robotics commercial product (www.cyberbotics.com) to integrate a remote control and cross-compilation for Aibo ERS-7.
- Member of the **Education and Training** (www.euron.org/education.html) section of the **EURON** (www.euron.org). In charge of several coordination tasks, and of the development of the Theseuron site, the Robotics theses repository.
- Member of the **GREC** group for the research on artificial intelligence and knowledge engineering (www.upc.es/web/GREC/)

REFEREES

- Available upon request