

CURRICULUM VITAE

Eris Chinellato

Date and place of birth: April 16, 1974, Venice, Italy

Nationality: Italian

Address: TI2110, Departamento de Ingeniería y Ciencia de los Computadores,
Universitat Jaume I, Av. Sos Baynat s/n, 12071, Castellón de la Plana, Spain

Phone: +34 964 728292, +34 665 106571; Fax: +34 964 728486

e-mail: eris@uji.es

Academic background

- | | |
|----------------|--|
| Currently | Postdoctoral researcher of EU-FP7 project EYESHOTS at the Robotic Intelligence Lab of Jaume I University |
| June 2008 | PhD (Excelente cum Laude) in Advanced Informatics systems, Jaume I University, Castellón, Spain.
PhD thesis: <i>Visual neuroscience of robotic grasping</i> , director: prof. Angel P. del Pobil. The thesis was awarded the special PhD prize by Jaume I University, was ranked as second best robotics thesis in Spain and was among the finalists at the Georges Giralt PhD Award to the best robotics thesis in Europe. |
| September 2002 | MSc (with Honours) in Artificial Intelligence, University of Edinburgh, UK. Best AI MSc student award. Specializations: Intelligent Robotics and Neural Computation.
MSc thesis: <i>Robust Strategies for Selecting Vision-Based Planar Grasps of Unknown Objects with a Three-Finger Hand</i> , director: prof. Robert B. Fisher. |
| March 1999 | Graduation degree in Industrial Engineering and Management (Ingegneria Gestionale), marks 105/110, Padua University (Università degli Studi di Padova). Graduation thesis: <i>Gestione intelligente di scorte con logica fuzzy</i> , director: prof. Silverio Bolognani. |
| July 1993 | Secondary school diploma in Informatics, marks 60/60, Industrial Technical State Institute (I.T.I.S.) "C.Zuccante", Venice. |

Professional Experiences

- | | |
|-------------------------------|--|
| 2003-2004 and
2004-2005 | Teaching at Jaume I University, Castellón, Spain. Subjects: Informatics, Practicum of Industrial Engineering. |
| April 2000 -
June 2001 | Employed by Reckitt Benckiser Italia S.p.A., Logistics Department, as System Supervisor of the Automatic Warehouse of Mira (Venice). |
| April 1999 -
February 2000 | Accomplishment of Civilian Service at A.L.I.S.E. Association, Bologna. Duties: support, assist and educate disabled people. |
| 1996 | Part-time job as lab assistant in the Informatics Laboratory of the Industrial Engineering and Management Institute of Padua University. |

Languages

English	very good; TOEFL certificate June 2001, marks 257
Italian	native
Spanish	excellent
French, Catalan	basic

Research Stays

April 2010	Dipartimento di Fisiologia umana e generale, Università di Bologna, Italy (collaboration with prof. Claudio Galletti and Patrizia Fattori).
October - December 2006	Department of Electronics and Informatics, Università degli studi di Padova, Italy (supervisor prof. Enrico Pagello).
October - December 2005	Department of Electrical Engineering, Imperial College London, UK (supervisor prof. Yiannis Demiris).
July - September 2004	Department of Psychology, University of Western Ontario, London, Canada (supervisors prof. Jody C. Culham and Melvyn A. Goodale).

Grants and prizes

September 2010	Special PhD prize by Jaume I University, Castellón, Spain, September 20, 2010.
March 2010	Finalist at the Georges Giralt PhD Award to the best robotics thesis in Europe by EURON (European Robotics Research Network), EURON Annual Meeting, San Sebastian, Spain, March 11, 2010.
September 2009	Second best robotics thesis in Spain by CEA (Comité Español de Automática), XXX Jornadas de Automática, Valladolid, Spain, September 3, 2009.
June 2009	Jose Mira prize for “best Promising Paper” at <i>Intl. Work-Conference on the Interplay Between Natural and Artificial Computation</i> , 2009.
September 2008	Innovation Prize at <i>Intl. Conf. on Climbing and Walking Robots</i> , 2008.
January- December 2007	PhD research grant from Universitat Jaume I.
December 2002 - December 2006	PhD grant (FPI program) from the Spanish Ministry of Education and Science.
September 2002	Best Artificial Intelligence MSc Student Award from the University of Edinburgh.
September 2001 - September 2002	MSc grant from the Scottish Agency for the Advancement of Science.

International Publications

Journals

- E. Chinellato, M. Antonelli, B.J. Grzyb, & A.P. del Pobil. **Implicit sensorimotor mapping of the peripersonal space by gazing and reaching**, *IEEE Transactions on Autonomous Mental Development*, in press, 2011.
- E. Chinellato, B.J. Grzyb, N. Marzocchi, A. Bosco, P. Fattori, & A.P. del Pobil. **The Dorsomedial Visual Stream: from Neural Activation to Sensorimotor Interaction**, *Neurocomputing*, in press, 2011.
- A. Bosco, R. Breveglieri, E. Chinellato, C. Galletti & P. Fattori. **Reaching activity in the medial posterior parietal cortex of monkeys is modulated by visual feedback**, *Journal of Neuroscience*, 30(44): 14773-14785, November 2010.
- E. Chinellato & A.P. del Pobil, **The neuroscience of vision-based grasping: a functional review for computational modeling and bio-inspired robotics**, *Journal of Integrative Neuroscience*, 8(2):223-54, July 2009.
- B.J. Grzyb, E. Chinellato, A. Morales & A.P. del Pobil, **A 3D Grasping System Based on Multimodal Visual and Tactile Processing**, *Industrial Robot Journal*, 36 (4):365-369, 2009.
- E. Chinellato & A.P. del Pobil, **Distance and orientation estimation of graspable objects in natural and artificial systems**, *Neurocomputing*, 72(4-6): 879-886, January 2009.
- G. Recatalá, E. Chinellato, A.P. del Pobil, Y. Mezouar & P. Martinet. **Biologically-inspired 3D grasp synthesis based on visual exploration**, *Autonomous Robots*, 25(1-2): 59-70, August 2008.
- E. Chinellato, A. Morales, E. Cervera & A.P. del Pobil, **Symbol Grounding through Robotic Manipulation in Cognitive Systems**, *Robotics and Autonomous Systems*, 55(12): 851-859, December 2007.
- A. Singhal, J.C. Culham, E. Chinellato & M.A. Goodale, **Dual-Task Interference is Greater in Delayed Grasping than in Visually-Guided Grasping**, *Journal of Vision*, 7(5), 2007
- E. Chinellato, A. Morales, R.B. Fisher & A.P. del Pobil. **Visual Quality Measures for Characterizing Planar Robot Grasps**, *IEEE Transactions on Systems, Man and Cybernetics (Part C)*, 35(1): 30-41, February 2005.
- A. Morales, E. Chinellato E., A.H. Fagg., A.P. del Pobil. **Using experience for assessing grasp reliability**, *International Journal of Humanoid Robotics*, 1(4): 671-691, December 2004.

Book chapters and Collections

- E. Chinellato, B. J. Grzyb, N. Marzocchi, A. Bosco, P. Fattori and A. P. del Pobil. **Eye-Hand Coordination for Reaching in Dorsal Stream Area V6A: Computational Lessons**. Bioinspired Applications in Artificial and Natural Computation, LNCS 5602, Editors J. Mira, J. M. Ferrández, J.-R. Alvarez Sanchez, F. de la Paz, J. Toledo, 304-313, 2009. This work was awarded with the Jose Mira prize for “best Promising Paper”.
- E. Chinellato, B. J. Grzyb, P. Fattori and A. P. del Pobil. **Toward an Integrated Visuomotor Representation of the Peripersonal Space**. Bioinspired Applications in Artificial and Natural Computation, LNCS 5602, Editors J. Mira, J. M. Ferrández, J.-R. Alvarez Sanchez, F. de la Paz, J. Toledo, 314-323, 2009.
- E. Chinellato & A.P. del Pobil. **Neural Coding in the Dorsal Visual Stream**. *From Animals to Animals*, LNAI 5040, Editors M. Asada, J.C. Hallam, J.-A. Meyer, J. Tanipages, 230-239, 2008.
- E. Chinellato & A.P. del Pobil. **Integration of Stereoscopic and Perspective Cues for Slant Estimation in Natural and Artificial Systems**. *Nature Inspired Problem-Solving Methods in Knowledge Engineering*, LNCS 4528, Editors J. Mira, J.R. Alvarez, pages 399-408, 2007.

E. Martínez, E. Chinellato & A.P. del Pobil, **A Visual Application for Studying Cooperative Behaviours**. *Visualization, Imaging and Image Processing*, Editor J.J. Villanueva, Acta Press, Anaheim, California, USA, pages 70-75, 2007.

E. Chinellato, Y. Demiris & A.P. del Pobil. **Brain Modeling for Action-Perception Coordination in Robotics**. *Artificial Intelligence and Soft Computing*, Editor A.P. del Pobil, Acta Press, Anaheim, California, USA, pages 184-189, 2006.

E. Chinellato & A.P. del Pobil. **Vision and Grasping: Humans vs. Robots**. In *Mechanisms, Symbols, and Models Underlying Cognition, LNCS 3561*, Editors J. Mira, J.R. Alvarez, pages 368-377, 2005.

A.P. del Pobil, E. Cervera & E. Chinellato 2004. **Objects, Actions and Physical Interactions**. In *Anchoring Symbols to Sensor Data*, Editors S. Coradeschi, A. Saffiotti, AAAI Press, Menlo Park, California, pp. 71-76, 2004.

E. Chinellato, A. Morales, P.J. Sanz & A.P. del Pobil. **Validation of Features for Characterizing Robot Grasps**. In *Artificial Neural Nets Problem Solving Methods, LNCS 2687*, Editors J. Mira, J.R. Alvarez, pages 193-200, Springer-Verlag, 2003.

Conference Proceedings

M. Antonelli, E. Chinellato & A.P. del Pobil. **Visuomotor spatial awareness through concurrent reach/gaze actions**. *2010 International Conference on Cognitive Systems, CogSys 2010*.

B.J. Grzyb, E. Chinellato, G.M. Wojcik & W.A. Kaminski. **Facial Expression Recognition based on Liquid State Machines built of Alternative Neuron Models**. *Intl. Joint Conf. on Neural Networks, IJCCN 2009*, Atlanta, USA, June 2009.

B.J. Grzyb, E. Chinellato, G.M. Wojcik & W.A. Kaminski. **Which Model to Use for the Liquid State Machine?** *Intl. Joint Conf. on Neural Networks, IJCCN 2009*, Atlanta, USA, June 2009.

B.J. Grzyb, E. Chinellato, A. Morales and A.P. del Pobil. **Robust grasping of 3D objects with stereo vision and tactile feedback**. *Intl. Conf. on Climbing and Walking Robots, CLAWAR 2008*, Coimbra, Portugal, September 2008. This paper was awarded with the CLAWAR 2008 Innovation Prize.

E. Chinellato, B.J. Grzyb & A.P. del Pobil. **Brain Mechanisms for Robotic Object Pose Estimation**. *Intl. Joint Conf. on Neural Networks, WCCI/IJCCN 2008*, Honk Kong, China, June 2008.

E. Chinellato & A.P. del Pobil. **fRI, functional Robotic Imaging: Visualizing a Robot Brain**. *Intl. Conf. on Distributed Human-Machine Systems, IEEE-DHMS 2008*, Athens, Greece, March 2008.

E. Chinellato and A.P. del Pobil, **Vision-based robotic grasping inspired by neuroscience**. *Workshop on Concepts, Actions, and Objects: Functional and Neural Perspectives, CAOs 2007*, Rovereto, Italy, April 2007.

E. Chinellato, G. Recatalà, A.P. del Pobil, Y. Mezouar, P. Martinet, **3D Grasp Synthesis Based on Object Exploration**. In *IEEE International Conference on Robotics and Biomimetics, ROBIO 2006*, Kunming, China, December 2006.

E. Chinellato and A.P. del Pobil. **Integration of monocular and binocular data for the extraction of action-related object properties**. In *Intl. Conf. on the Simulation of Adaptive Behavior, SAB'06*, Roma, Italy, September 2006.

G. Recatalà, E. Chinellato, A.P. del Pobil, Y. Mezouar, P. Martinet, **3D Grasp Synthesis Based on a Visual Cortex Model**. In *BioRob 2006, 1st IEEE/RAS-EMBS Intl. Conf. on Biomedical Robotics and Biomechatronics*, Pisa, Italy, February 2006.

A. Singhal, E. Chinellato, J.C. Culham, and M.A. Goodale. **Dual-task interference is greater in memory-guided grasping than visually guided grasping.** In *Vision Sciences Society 5th Annual Meeting*, Sarasota, Florida, May 2005.

A. Morales, E. Chinellato, A.H. Fagg, and A.P. del Pobil. **An active learning approach for assessing robot grasp reliability.** In *IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems (IROS 2004)*, pages 485-491, Sendai, Japan, September 2004.

A. Morales, E. Chinellato, P.J. Sanz, A.H.Fagg, and A.P. del Pobil. **Learning to predict grasp reliability with a multifinger robot hand by using visual features.** In *IASTED Intl. Conf. on Artificial Intelligence and Soft Computing*, pages 249-254, Marbella, Spain, September 2004.

A. Morales, E. Chinellato, A.H. Fagg, and A.P. del Pobil. **Active learning for robot manipulation.** In *European Conf. on Artificial Intelligence (ECAI 2004)*, pages 905-909, Valencia, Spain, August 2004.

A. Morales, E. Chinellato, P.J. Sanz, A.H. Fagg, and A.P. del Pobil. **Vision based planar grasp synthesis and reliability assessment for a multifinger robot hand: a learning approach.** In *Intl. Conf. on Intelligent Manipulation and Grasping (IMG04)*, pages 564-570, Genoa, Italy, July 2004.

A. Morales, E. Chinellato, A.H. Fagg and A.P. del Pobil. **Using experience for assessing grasp reliability.** In *IEEE Intl. Conf. On Humanoids Robots (Humanoids 2003)*, Karlsruhe, Germany, October 2003.

A. Morales, E. Chinellato, A.H. Fagg and A.P. del Pobil. **Experimental prediction of the performance of grasp tasks from visual features.** In *IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems, (IROS 2003)*, pages 3423-3428, Las Vegas, USA, October 2003.

E. Chinellato, R.B. Fisher, A. Morales and A.P. del Pobil. **Ranking Planar Grasp Configurations for a Three-Finger Hand.** In *IEEE Intl. Conf. on Robotics and Automation (ICRA 2003)*, pages 1133-1138, Taipei, Taiwan, September 2003.

Organized events

Organization Chair of the 9th *International UJI Robotics School on Visuomotor Interaction*, Benicàssim, Spain, September 14-18, 2009.

Organizer and Chair of the *Special Session on Robotics and Neuroscience*, in the *International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2009*, Santiago de Compostela, Spain, June 22-26, 2009.

Organizer and Chair of the *Special Session on Robotics and Neuroscience*, in the *International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2007*, La Manga del Mar Menor, Spain, June 18-21, 2007.

Organization Chair of the 5th *International UJI Robotics School on Robotics and Neuroscience*, Benicàssim, Spain, September 19-23, 2005.

Organizer and Chair of the *Workshop on Robotics and Neurobiology (On the Interplay Between Robotic Artefacts and Living Organisms)*, in the *International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2005*, Las Palmas de Gran Canaria, Spain, June 15-18, 2005.

Invited talks

“Visuomotor coordination in reaching and grasping actions”; *European Workshop on Advanced Predictive Sensor-Motor Control*, Curonian Spit (Lithuania), 22-23 May, 2009.

“Vision-based robotic grasping inspired by neuroscience”; Computational Cognitive Neuroscience Lab, University of Padova, Italy, November 22, 2006.

“Vision-based robotic grasping inspired by neuroscience”; Department of Information Engineering, University of Padova, Italy, October 26, 2006.

“Vision based grasping in robotics and neuroscience”; LAR-DEIS (Laboratory of Robotics and Automation), University of Bologna, Italy, November 17, 2005.

“Visually based robotic grasping and the neuroscience of sensorimotor coordination”; CVR (Centre for Vision Research), York University, Toronto, Canada, September 17, 2004.

Other

- Reviewer for international journals;
- Participation as Session Chair, Program Committee and Reviewer in international conferences;
- Participation in national (Spanish) and international courses;
- Consolidated knowledge of several informatics and robotics tools, programming languages and operating systems;
- Experience with cognitive science experiment design and data analysis.