

## CURRICULUM VITAE

### **Chinellato Eris**

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

Nationality: Italian

Postdoc researcher at the Robotic Intelligence Laboratory, Computer Science and Engineering Department, Jaume I University, Castellón, Spain.

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### Studies

- June 2008: PhD (Excelente cum Laude) in Advanced Informatics systems, Universitat Jaume I, Castellón, Spain. PhD thesis: “Visual neuroscience of robotic grasping”, director: prof. Angel P. del Pobil.
- 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: “Robust Strategies for Selecting Vision-Based Planar Grasps of Unknown Objects with a Three-Finger Hand”, 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: “Gestione intelligente di scorte con logica fuzzy”, 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

- During 2003-2004 and 2004-2005: teaching at the 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.

- During 1996: part-time job as lab assistant in the Informatics Laboratory of the Industrial Engineering and Management Institute of Padua University.

#### Foreign languages

- English: very good. TOEFL certificate June 2001, marks 257.
- Spanish: excellent.
- French: weak.

#### Stays

- Università degli studi di Padova (supervisor prof. Enrico Pagello), October-December 2006.
- Imperial College London, UK (supervisor prof. Yiannis Demiris), October-December 2005;
- University of Western Ontario, London, Canada (supervisors prof. Jody C. Culham and Melvyn A. Goodale), July-September 2004;
- University of Edinburgh, UK, from September 2001 to September 2002;

#### International Publications

##### Journals

- E. Chinellato, A.P. del Pobil, **Distance and orientation estimation of graspable objects in natural and artificial systems**, *Neurocomputing*, In press, 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. and 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, 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. 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 and 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

- 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.
- E. Chinellato & A.P. del Pobil. **Neural Coding in the Dorsal Visual Stream.** *Intl. Conf. on the Simulation of Adaptive Behavior, SAB 2008*, Osaka, Japan, July 2008.
- 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. Martínez, E. Chinellato, A.P. del Pobil, **A Visual Application for Studying Cooperative Behaviours.** *IASTED International Conference on Visualization, Imaging, and Image Processing, VIIP 2007*, Palma de Mallorca, Spain, August 2007.
- 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.
- E. Chinellato, Y. Demiris and A.P. del Pobil. **Brain Modeling for Action-Perception Coordination in Robotics**. *IASTED International Conference on Artificial Intelligence and Soft Computing - ASC 2006*, pages 184-189, Palma de Mallorca, Spain, August 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 5<sup>th</sup> Annual Meeting*, Sarasota, Florida, May 2005.
- 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.
- 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

- Organizer and Chair of the *Workshop 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 5<sup>th</sup> *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

- “Vision-based robotic grasping inspired by neuroscience”; Department of Information Engineering and Computational Cognitive Neuroscience Lab, University of Padova, Italy, October 26 and November 22, 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 tools, programming languages and operating systems.
- Experience with cognitive science experiment design and data analysis.