

## Curriculum vitae

### **PERSONAL INFORMATION**

Family name, First name: BERGAMASCO MASSIMO

Nationality: Italy

Date of birth: 02/06/1956

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### **EDUCATION**

1975-1985: Mechanical Engineering, Faculty of Engineering, University of Pisa, Pisa, Italy

1985- 986: Researcher, Centro E. Piaggio, Faculty of Engineering, University of Pisa, Italy

1987: Visiting student, GRASP Lab, University of Pennsylvania, Philadelphia, PA, USA

### **CURRENT POSITIONS**

2016-present: Director of the TeCIP Institute of Communication, Information and Perception Technologies, Scuola Superiore Sant'Anna, Pisa, Italy

2006-present: Full Professor of Theory of Mechanisms and Machines, Scuola Superiore Sant'Anna, Pisa, Italy

2005 -present: Co-director "Research Center G. Stefanini on Advanced Robotics", La Spezia, Italy

### **PREVIOUS POSITIONS**

1998-2006: Associate Professor of Theory of Mechanisms and Machines, Scuola Superiore Sant'Anna, Pisa, Italy

1987-1998: Assistant Professor in Biomechanics, Scuola Superiore Sant'Anna, Pisa, Italy

1991-2008: Founder and Director of the Perceptual Robotics Lab., Scuola Superiore Sant'Anna, Pisa, Italy

1992 Visiting Researcher, MEL, Biorobotics Laboratory, Tsukuba, Japan

### **FELLOWSHIPS AND AWARDS**

1989 NATO Advanced Research Fellow, Jet Propulsion Laboratory and CalTech, Pasadena, USA

### **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

1993-present More than 130 Graduate Students of Engineering and Computer Science of the University of Pisa, Italy and PhD Programme in Emerging Digital Technologies, Scuola Superiore Sant'Anna, Pisa, Italy  
More than 70 Postdocs/ PhD/ Master Students of the Scuola Superiore Sant'Anna, Pisa, Italy

## **TEACHING ACTIVITIES**

- 1993-present: Courses at Scuola Superiore Sant'Anna, Pisa, Italy:  
Mechanics of Robots, Mechanics of Manipulation, Perceptual Robotics,  
Virtual Environments and Digital Art, Interaction with Virtual  
Environments, Haptic Perception, Geometry of Mechanical and  
Biological Motion, Perception, Fundamentals of Perception
- 1993-2003: Mechanics of Robots, University of Pisa, Pisa, Italy
- 1995-2007: Virtual Environments, Computer Science, University of Pisa, Pisa, Italy
- 1998-1999: Mechanics of Robots, School of Architecture, Politechnic of Milan, Italy
- 2005-2006: Activities in the PhD program of Technologies and Management of  
Cultural Heritage, IMT Institute for Advanced Studies, Lucca, Italy
- 1989-2004: Seminars held in the following Italian and foreign  
universities/institutions:  
California Institute of Technology, CA, USA; University of California  
Berkeley, CA, USA; Tsukuba University, Japan; Nagoya University,  
Nagoya, Japan; Swiss Federal Institute of Technology, Lausanne,  
Switzerland; University College of London; Ecole Polytechnique Federale  
de Lausanne; Scuola Superiore Normale, Pisa, Italy, University of Udine,  
Italy, MART of Rovereto, Italy; Tor Vergata University, Roma, Italy;  
University of Lecce, Italy, IIT Genova, Italy
- 2012-2014: International Master's in the Preservation and Development of Wisdom  
Culture and the Art of Liberation (WISDOM), Scuola Superiore  
Sant'Anna, Pisa, Italy

## **ORGANISATION OF SCIENTIFIC MEETINGS**

- 1994-present: Organizer of several scientific meetings of European Projects at the Scuola  
Superiore Sant'Anna, Pisa, Italy (final workshop of the ESPRIT Project  
GLAD-IN-ART, scientific meeting of the Network of Excellence  
ENACTIVE; scientific meetings of the Integrated Project SKILLS)
- 1994: Organizer of the "1<sup>st</sup> International Conference on Virtual Environments in  
rehabilitation", Gubbio, Italy
- 1996: Organizer of the Conference "Telemanipulator and Telepresence  
Technologies III" in the framework of the International SPIE  
Symposium, Boston, MA, USA
- 1996: Organizer of the Conference "FIVE:: Framework for Immersive Virtual  
Environments: advanced, Applications and Impact of Immersive VEs",  
Pisa, Italy
- 1999: Organizer and General Chairman of the International Conference "8<sup>th</sup>  
IEEE International Workshop on Robot and Human Interaction", Pisa,  
Italy
- 2005: Organizer and General Chairman of the IEEE Worldhaptics 2005, Pisa,  
Italy
- 2007: Beyond Movement – The history and future of gesture analysis, Scientific  
Workshop and Photographic Exhibition, Pisa, Italy
- 2011: SKILLS Summer School 2011: Skill Learning and Virtual Environments –  
International Summer School for PhD students organized in the  
framework of the SKILLS Integrated project, Gargonza, Italy
- 2012: BiHRI Summer School 2012 - Biomechanics in Human-Robot Interaction,  
International Summer School for PhD students, Gargonza, Italy
- 2013: Experiencing the Embodied Mind: high performance psychophysical  
expertise, subjectivity research, and brain-computer technology –  
International Workshop , Gargonza, Italy

## **INSTITUTIONAL RESPONSIBILITIES**

Member of the Board of Directors, Scuola Superiore Sant'Anna, Pisa, Italy  
Member of the Research Commission and Patent Commission of the Scuola Superiore Sant'Anna, Pisa, Italy  
Member of the Steering Committee of the Interaction Design Institute of Ivrea, Italy  
Vice-Director of the Institute of Technologies of Communication, Information and Perception Technologies, Scuola Superiore Sant'Anna, Pisa, Italy  
Member of the PhD Faculty Committee, Scuola Superiore Sant'Anna, Pisa, Italy  
Member of the academic board of examiners for Graduate and PhD students  
Committee Member of the PhD Program of Technologies and Management of Cultural Heritage at IMT Institute for Advanced Studies, Lucca, Italy  
Member of the Scientific Committee of QUINN, Pisa, ITALY

## **COMMISSIONS OF TRUST**

1993-present Reviewer of many proposal ESPRIT Basic Research and ESPRIT Long Term Research of the ESPRIT Program, IST, FET  
1993-present Reviewer of the following European projects:  
IST-1999-12581 JUST  
IST 2001-33235 H-CAD  
HORIZON 0492/E2/H/M  
Esprit Project 28957-SHE  
IST-1999-10726-ROBOVOLC  
IST-1999-11976-ROBOSENSE  
IST-FP6-507382 NoE EPOCH  
ICT 600796 MOBOT  
1995-present Evaluation activities for the following Magazines:  
PRESENCE: Teleoperators and Virtual Environments, MIT Press  
Advanced Robotics, International Journal of Mechatronics  
Journal Computer Animation and Virtual Worlds  
Transactions of Applied Perception  
IEEE Transaction on Man, Systems and Cybernetics  
International Journal of Robotic Research

## **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

1990-2000: Academic editorial board, PRESENCE: Teleoperators and Virtual Environments, MIT Press  
1990-1995 Member editorial board, Journal Européen des Systèmes Automatisés, Hermes Publisher  
1994-present: Academic editorial board, Virtual Reality, Springer  
1998-present: Member editorial board, E-Haptics, Washington University, USA  
1999 Chairman, International Conference on Human and Robot Interaction RO-MAN, Pisa, Italy.  
2005 Founder and Co-chairman of the first WorldHaptics Conference, Pisa, Italy  
2005-2008: Founder of the ENACTIVE Conference, Genova - Montpellier - Grenoble – Pisa  
2006- present: Co-Founder of the Eurohaptics Society  
2007-present: Senior Advisor of the Executive Committee, IEEE Technical Committee on Haptics  
2007-present: Founder of the SKILLS Conference, Pisa - Ausburg - Bilbao  
2007-present: Member of ACM  
2013-present: Member of IFToMM Italy  
2000 Member of the Interaction Design Association

## **MAJOR COLLABORATIONS**

1995-present    Research collaborations and exchange of researchers and students with the following institutions:  
Stanford University-Robotics Laboratory  
McGill University-Haptics Laboratory  
Kyoto University-Dept of Mechanical Engineering  
DLR-Telerobotics Laboratory  
University of Navarra - CEIT  
Hosey University – Dept. of Control Engineering  
Mechanical Engineering Laboratory, MITI, Tsukuba, Japan  
Universite Philippe et Marie Curie, Paris – Laboratoire de Robotique  
University College of London  
ITEMS Toluca, Mexico

## **CAREER BREAKS**

2014-2015        Sabbatical year for research on the study of Visual and Tactile Perception.

**Appendix: All ongoing and submitted grants and funding of the PI (Funding ID)**

**Previous and On-going Grants**

<i>Project Title</i>	<i>Funding source</i>	<i>Period</i>	<i>Role of the PI</i>
ESPRIT –GLAD IN ART	European Commission	1991-1994	Coordinator
ESPRIT - SCATIS	European Commission	1992-1995	Coordinator
ESPRIT - FIVE	European Commission	1994-1997	Participant
TIDE - VETIR	European Commission	1994-1998	Coordinator
ESPRIT - MORIS	European Commission	1996-2000	Coordinator
TIDE - TREMOR	European Commission	1997-2000	Coordinator
VIRtual	European Commission	2000-2002	Coordinator
IST- GRAB	European Commission	2001-2004	Coordinator
IST-CREATE	European Commission-FP5	2001-2004	WP Leader
IST-PURE FORM	European Commission-FP5	2002-2006	Coordinator
IST- Network of Excellence ENACTIVE	European Commission-FP6	2004-2007	Coordinator
IST-HAPTEX	European Commission-FP6	2004-2007	WP Leader
IST-Network of Excellence INTUITION	European Commission-FP6	2004-2008	WP Leader
FIRB -Robotics Technologies in Archaeology	Italian Ministry for Education, University and Research	2004-2008	WP Leader
Projects with FINMECCANICA	Industry	2005-2011	Coordinator
IST - Decisions in Motion	European Commission-FP6	2006-2008	Participant
New Robotics Technologies for Rehabilitation	Fondazione Monte dei Paschi di Siena	2006-2008	WP Leader
IST-PRESENCIA	European Commission-FP6	2006-2009	WP Leader
Advanced Applications for Robotic Technologies and Teleoperation	Italian Ministry of Defence	2006-2009	WP Leader
IST Integrated Project SKILLS	European Commission-FP6	2006-2011	Coordinator

ICT SAFERIDER	European Commission-FP7	2008-2010	Participant
LMP-OPTIMUS	European Commission-LLP	2008-2010	WP Leader
ICT -VERITAS	European Commission-FP7	2010-2013	Participant
ICT-BEAMING	European Commission-FP7	2010-2014	Participant
PRIN Innovative Actuators Technologies for Robots	Italian Ministry for Education, University and Research	2010-2014	WP Leader
FET-VERE	European Commission-FP7	2010-2015	WP Leader
GREEN CRANES	European Commission-TEN-T	2012-2014	Participant
ENERGY-PolyWEC	European Commission-FP7	2012-2017	Participant
ICT-WEARHAP	European Commission-FP7	2013-2017	Participant
ICT-ReMeDi	European Commission-FP7	2013-2016	Participant
SUONO	Smart cities	2013-2016	Participant
ICT-PELARS	European Commission-FP7	2014-2017	Participant
SEA TERMINALS	European Commission-TEN-T	2014-2015	Participant
ICT-ICTIP	European Commission-H2020	2015-2016	Participant
PHC-RAMCIP	European Commission-H2020	2015-2017	Participant
ICT-CENTUARO	European Commission-H2020	2015-2018	Participant
LCE-WETFEET	European Commission-H2020	2015-2018	Participant
TWINN-eHERITAGE	European Commission-H2020	2015-2018	Participant
Trenitalia	Trenitalia SpA	2015-2018	Coordinator

Beside UE Projects, Massimo Bergamasco carried out activities in several domains:

1993-2003 9 projects co-financed by MIUR  
1999-2000 2 projects for the Scuola Superiore Sant'Anna  
1991-2005 11 projects in the framework of University activities  
1988-1996 8 projects in the framework of CNR (Centro Nazionale per le Ricerche)  
1991-2000 3 projects in collaboration with ASI (AgeItalian Space Agency)

## Excerpt of publications

1. G. Papini, M. Fontana, **M. Bergamasco**, (2016) “Desktop Haptic Interface for Simulation of Hand-Tremor”, IEEE Transaction On Haptics
2. G. Di Cesare, G. Valente, C. Di Dio, E. Ruffaldi, **M. Bergamasco**, R. Goebel, G. Rizzolatti (2016). “Vitality forms processing in the insula during action observation: a multivoxel pattern analysis”, Frontiers in Human Neuroscience
3. L. Bonfiglio, A. Virgillito, M. Magrini, A. Piarulli, **M. Bergamasco**, U. Barcaro, B. Rossi, O. Salvetti, M.C. Carboncini, (2015) “N400-like responses to three-chord harmonic sequences with unexpected out of key endings: scalp topography, cortical sources, and perspectives for a clinical use”, Archives Italiennes De Biologie
4. Menicucci, A. Piarulli, P. Allegrini, R. Bedini, **M. Bergamasco**, M. Laurino, L. Sebastiani, A. Gemignani, (2015) “Looking for a precursor of spontaneous Sleep Slow Oscillations in human sleep: The role of the sigma activity”, International Journal of Psychophysiology
5. Leonardis, M. Barsotti, C. Loconsole, M. Solazzi, M. Troncossi, C. Mazzotti, V. Parenti Castelli, C. Procopio, G. Lamola, C. Chisari, **M. Bergamasco**, A. Frisoli (2015), “An EMG-Controlled Robotic Hand Exoskeleton for Bilateral Rehabilitation”, IEEE Transaction On Haptics
6. M. A. Padilla-Castaneda, E. Castellani, A. Frisoli, **M. Bergamasco**, E. L. Santarcangelo, (2015), “Hypnotizability and the position sense: proprioceptive localization of the hand”, Archives Italiennes De Biologie
7. E. Tidoni, G. Fusco, D. Leonardis, A. Frisoli, **M. Bergamasco**, S.M. Aglioti (2015) “Illusory movements induced by tendon vibration in right- and left-handed people”, Experimental Brain Research
8. D. Leonardis, A. Frisoli, M. Barsotti, M. Carrozzino, **M. Bergamasco**,(2015) “Multisensory Feedback Can Enhance Embodiment Within an Enriched Virtual Walking Scenario”, Presence-Teleoperators and Virtual Environments
9. M. Carrozzino, C. Evangelista, C. Bay, F. Tecchia, D. Matteoni, **M. Bergamasco**, (2015)“An immersive information system for the communication of the restoration of Simone Martini's Polyptich”, Journal of Cultura Heritage
10. M. Solazzi, M. Gabardi, A. Frisoli, **M. Bergamasco**, (2014) “Kinematics Analysis and Singularity Loci of a 4-UPU Parallel Manipulator”, Advances in Robot Kinematics
11. M.C. Carboncini, A. Piarulli, A. Virgillito, P. Arrighi, F. Tomaiuolo, A. Frisoli, **M. Bergamasco**, B. Rossi, L. Bonfiglio (2014) “A case of post-traumatic minimally conscious state reversed by midazolam: clinical aspects and neurophysiological correlates”, Restorative Neurology and Neuroscience
12. M. Fontana, R. Vertechy, S. Marcheschi, F. Salsedo, **M. Bergamasco** (2014), “The Body Extender: Design Of A Full Body Exoskeleton for Human Power Augmentation”, The IEEE Robotics and Automation Magazine
13. M. Fontana, R. Vertechy, S. Marcheschi, F. Salsedo, **M. Bergamasco**, (2014) “The Body Extender: A Full-Body Exoskeleton for Transport and Handling of Heavy Loads, IEEE Robotics and Automation Magazine
14. M. A. Padilla-Castañeda, A. Frisoli, S. Pabon, **M. Bergamasco**, (2014) “The Modulation of Ownership and Agency in the Virtual Hand Illusion under Visuotactile and Visuomotor Sensory Feedback”, Presence, MIT Press
15. L. Bonfiglio, A. Piarulli, U. Olcese, P. Andre, P. Arrighi, A. Frisoli, B. Rossi, **M. Bergamasco**, M. C. Carboncini, (2014) “Spectral Parameters Modulation and Source Localization of Blink-Related Alpha and Low-Beta Oscillations Differentiate Minimally Conscious State from Vegetative State/Unresponsive Wakefulness Syndrome”, Plos One

16. L. Palagini, A. Piarulli, D. Menicucci, E. Cheli, E. Lai, **M. Bergamasco**, M. Mauri, S. D. Kyle, C.A. Espie, A. Gemignani, (2014)“Metacognitive beliefs relate specifically to sleep quality in primary insomnia: A pilot study”, *Sleep Medicine*
17. A.Gemignani, A. Piarulli, D. Menicucci, M. Laurino, G. Rota, F. Mastorci, V. Gushin, O. Shevchenko, E. Garbella, A. Pingitore, L. Sebastiani, **M. Bergamasco**, A. L’Abbate, P. Allegrini, R. Bedini, (2014) “How stressful are 105days of isolation? Sleep EEG patterns and tonic cortisol in healthy volunteers simulating manned flight to Mars”, *International Journal of Psychophysiology*, Pages 211-219
18. P. Tripicchio, C. Loconsole, A. Piarulli, E. Ruffaldi, F. Tecchia, **M. Bergamasco**, (2014)“On multiuser perspectives in passive stereographic virtual environments”, *Computer Animation and Virtual Worlds*,
19. G. F. Porzio, V. Colla, N. Matarese, G. Nastasi, T. A. Branca, A. Amato, B. Fornai, M. Vannucci, **M. Bergamasco**, (2014) “Process integration in energy and carbon intensive industries: An example of exploitation of optimization techniques and decision support”, *Applied Thermal Engineering*
20. A. Frisoli, C. Loconsole, R. Bartalucci, **M. Bergamasco**, (2013) “A new bounded jerk on-line trajectory planning for mimicking human movements in robot-aided neurorehabilitation”, *Robotics and Autonomous Systems*, Volume 61, Issue 4, Pages 404-415, ISSN 0921-8890
21. M. Carrozzino, C. Evangelista, R. Brondi, F. Tecchia, **M. Bergamasco** (2013) “Virtual reconstruction of paintings as a tool for research and learning” In: *Journal of Cultural Heritage* (ISSN:1296-2074) o 10.1016/j.culher.2013.06.003
22. M. Carrozzino, N. Bruno, **M. Bergamasco** (2013), “Designing interaction metaphors for Web3D cultural dissemination”, *Journal of Cultural Heritage*, April 2013, Pages 146-155
23. M. Fontana, F. Salsedo, **M. Bergamasco** (2013), “Novel Magnetic Sensing Approach with Improved Linearity” In: *SENSORS* (ISSN:1424-8220) 15 (13)
24. M. Fontana, F. Salsedo, S. Marcheschi, **M. Bergamasco** (2013), “Haptic hand exoskeleton for precision grasp simulation”, *Journal of Mechanisms and Robotics*
25. F. Vanni, C. Conversano, A. Del Debbio, P. Landi, M. Carlini, C. Fanciullacci, **M. Bergamasco**, A. Di Fiorino, L. dell’Osso, “A survey on virtual environment applications to fear of public speaking”, *European Review for Medical and Pharmacological Sciences*, 2013, Pages 1561-1568
26. L. Bonfiglio, U.Olcese, B.Rossi, A. Frisoli, P. Arrighi, G. Greco, S. Carozzo, P. Andre, **M. Bergamasco** , M.C. Carboncini, (2013) “Cortical source of blink-related delta oscillations and their correlation with levels of consciousness”, *Human Brain Mapping*,
27. R. Vertechy, G. Berselli, V.P. Castelli, **M. Bergamasco**, (2013) “Continuum thermo-electro-mechanical model for electrostrictive elastometers”, *Journal of Material Systems and Structures*,
28. **M. Bergamasco**, C.A. Avizzano, (2013) “ Special issue on SKILLS modeling and digital representation”, *Robotics and Autonomous Systems*,
29. M. Carrozzino, A.Angelataki, C. Evangelista, C. Lorenzini, F. Tecchia, **M. Bergamasco** (2013) “Virtual technologies es to enable novel methods of access to library archives”, *SCIRES-IT*,
30. M. Banitalebi Dehkordi, A. Frisoli, E. Sotgiu, **M. Bergamasco**, (2012) “Modelling and Experimental Evaluation of a Static Balancing Technique for a new Horizontally-Mounted 3-UPU Parallel Mechanism”, *International Journal of Advanced Robotic Systems*;
31. A.Frisoli, C. Loconsole, D. Leonardis, F. Banno, M. Barsotti, C. Chisari, **M. Bergamasco**, (2012) "A New Gaze-BCI-Driven Control of an Upper Limb Exoskeleton for Rehabilitation in Real-World Tasks ", *Transactions on Systems*,



32. R. Vertechy, A. Frisoli, **M. Bergamasco**, F. Carpi, G. Frediani, D. De Rossi, (2012) "Modeling and experimental validation of buckling dielectric elastomer actuators", Smart Materials and Structures,
33. A. Frisoli, C. Loconsole, D. Leonardis, F. Bannó, M. Fontana, **M. Bergamasco**, (2012) "A new BCI, gaze and Kinect-based active guidance mode for upper limb robot-aided neurorehabilitation in real world tasks", Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews
34. A. Frisoli, C. Procopio, C. Chisari, I. Creatini, L. Bonfiglio, **M. Bergamasco**, B. Rossi, M. C. Carboncini, (2012) "Positive effects of robotic exoskeleton training of upper limb reaching movements after stroke", Journal of Neuroengineering and Rehabilitation 9(1)
35. M. Fontana, S. Marcheschi, F. Salsedo, **M. Bergamasco** (2012) "A three-axis force sensor for dual finger haptic interfaces" In: SENSORS
36. A. Steed, W. Steptoe, W. Oyekoya, F. Pece, T. Weyrich, J. Kautz, D. Friedman, A. Peer, M. Solazzi, F. Tecchia, **M. Bergamasco**, M. Slater (2012) "Spatial Interfaces-Beaming: An Asymmetric Telepresence System" In: IEEE COMPUTER GRAPHICS AND APPLICATIONS
37. R. Vertechy, **M. Bergamasco**, G. Berselli, V. Parenti Castelli, G. Vassura, (2012) "Compliant actuation based on dielectric elastomers for a force-feedback device: Modeling and experimental evaluation", Frattura ed Integrita' Strutturale, 2012, Pages 47-56
38. M.A. Padilla-Castaneda, E. Sotgiu, A. Frisoli, **M. Bergamasco**, (2012) "A robotic & virtual reality orthopedic rehabilitation systems for the forearm", Studies in Health Technology and Informatics, 2012, Pages 324-328
39. A. Scucces, M. Carrozzino, C. Evangelista, **M. Bergamasco** (2012) "Virtual Environments and Interactive Tools to communicate Medical Culture in small Museums", SCIRES-IT (ISSN:2239-4303) 14 (2) 10.2423/i22394303v2n2p77
41. A Frisoli, C. Loconsole, R. Bartalucci, **M. Bergamasco** (2012) "A new bounded jerk on-line trajectory planning for mimicking human movements in robot-aided neurorehabilitation", to be published in Robotics and Autonomous Systems
42. M. Banitalebi Dehkordi, A. Frisoli, E. Sotgiu, **M. Bergamasco** (2012) "Modelling and Experimental Evaluation of a Static Balancing Technique for a new Horizontally-Mounted 3-UPU Parallel Mechanism", to be published in International Journal of Advanced Robotic Systems
43. A. Frisoli, C. Loconsole, D. Leonardis, F. Bannó, M. Fontana, **M. Bergamasco** (2012), "A new BCI, gaze and Kinect-based active guidance mode for upper limb robot-aided neurorehabilitation in real world tasks", accepted for publication in Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews
44. R. Vertechy, G. Berselli, V. Parenti Castelli, **M. Bergamasco** (2012) (In corso di stampa/deposito) "Continuum thermo-electro-mechanical model for electrostrictive elastomers", Journal of Intelligent Material Systems and Structures
45. R. Vertechy, A. Frisoli, **M. Bergamasco**, F. Carpi, G. Frediani, D. De Rossi (2012) "Modeling and experimental validation of buckling dielectric elastomer actuators", Smart Materials and Structures
46. M. Carrozzino, V. Piacentini, F. Tecchia, **M. Bergamasco** (2012) "Interactive Visualization of Crowds for the Rescue of Cultural Heritage in Emergency Situations", SCIRES-IT
47. A. Frisoli, C. Procopio, C. Chisari, I. Creatini, L. Bonfiglio, **M. Bergamasco**, B. Rossi, M.C. Carboncini (2012) "Positive effects of robotic exoskeleton training of upper limb reaching movements after stroke", Journal of Neuroengineering and Rehabilitation

48. L. Bonfiglio, U. Olcese, B. Rossi, A. Frisoli, P. Arrighi, G. Greco, S. Carrozzo, P. Andre, **M. Bergamasco**, M. C. Carboncini (In corso di stampa/deposito) "Cortical source of blink-related delta oscillations and their correlation with levels of consciousness", *Human Brain Mapping*
49. M. Carrozzino, N. Bruno, **M. Bergamasco** (In corso di stampa/deposito) "Designing interaction metaphors for Web3D cultural dissemination", *Journal of Cultural Heritage*
50. E. Ruffaldi, E., P. Tripicchio, C. A. Avizzano, **M. Bergamasco** (2011) "Haptic Rendering of Juggling with Encountered Haptic Interfaces", *Presence-Teleoperators and Virtual Environments*
51. M. Carrozzino, A. Scucces, D. Leonardis, C. Evangelista, **M. Bergamasco** (2011) "Virtually preserving the intangible heritage of artistic handicraft", *Journal of Cultural Heritage*
52. E. Ruffaldi, A. Filippeschi, C.A. Avizzano, B. Bardy, D. Gopher, **M. Bergamasco** (2011) "Feedback, Affordances and Accelerators for Training sports in Virtual Environments", *Presence-Teleoperators and Virtual Environments* (20/1)
53. A. Frisoli, M. Solazzi, D. Pellegrinetti, **M. Bergamasco** (2011) "A new screw theory method for the estimation of position accuracy in spatial parallel manipulators with joint clearances", *Mechanism And Machine Theory*
54. M.V. Sanchez-Vives, B Spanlang, A. Frisoli, **M. Bergamasco** (2010) M. Slater, "Virtual Hand Illusion Induced by Visuomotor Correlations", *PLoS ONE* 5(4)
55. A. Frisoli, M. Solazzi, M. Reiner, **M. Bergamasco** (2010) "The contribution of cutaneous and proprioceptive sensory modalities in haptic perception of orientation", *Brain Bulletin Research*
56. C.A. Avizzano, **M. Bergamasco**, E.Ruffaldi (2010) "Training skills with Virtual Environments" in Section 4: Lessons from learning and manipulating tools. In Fredric Danion and Mark Latash. *Progress in Motor Control: Oxford Univerisity Press*
57. **M. Bergamasco**, F. Salsedo, S. Marcheschi, N. Lucchesi (2010) "A Novel Actuator for Wearable Robots with Improved Torque Density and Mechanical Efficiency", *Advanced Robotics; New Actuators for Robot Systems* (2)Japan;2010;2041;23
58. F. Tecchia, M. Carrozzino, S. Bacinelli, F. Rossi, D. Vercelli, G. Marino, P. Gasparello, **M. Bergamasco** (2010) "A Flexible Framework for Wide-Spectrum VR Development", *Presence-Teleoperators and Virtual Environments*, vol. 19; p.302-312, ISSN: 1054-7460, doi: 10.1162/PRES\_a\_00002
59. A. Frisoli, **M. Bergamasco**, M. C. Carboncini, B. Rossi (2009)"Robotic assisted rehabilitation in Virtual Reality with the L-EXOS" in *Advanced Technologies in Neurorehabilitation: Emerging Applications in Evaluation and Treatment*, editors Gaggioli, A., Keshner, E., Riva, G, and Weiss, P.L., IOS PRESS
60. A.Frisoli, E. Ruffaldi, A. Filippeschi, C.A. Avizzano, F. Vanni, **M. Bergamasco** (2009) "In-door skill training in rowing practice with a VR based simulator", *International Journal of Sport Psychology*
61. A. Filippeschi, E. Ruffaldi, A. Frisoli, C. A. Avizzano, M.l Varlet, L. Marin, J. Lagarde, B. Bardy, **M. Bergamasco** (2009) "Dynamic models of team rowing for a virtual environment rowing training system", *The International Journal of Virtual Reality*
62. A. Frisoli, A. Montagner, L. Borelli, F. Salsedo, **M. Bergamasco**, (2009) "A force-feedback exoskeleton for upper limb rehabilitation in Virtual Reality", *Applied Bionics and Biomechanics*"
63. F. Semeraro, A. Frisoli, **M. Bergamasco**, E. Cerchiari (2009) "Virtual reality enhanced mannequin (VREM) that is well received by resuscitation experts", *Resuscitation*
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