

Final Workshop Program
Venue: Zamansky Room 2304, UPMC, Pierre and Marie Curie University

S.No	Time	Presentor	Title	Session
1	09:00	Organizers	Introduction	
2	09:05	Prof. Roland S. Johansson <i>Umeå University, Sweden</i>	Functions of Tactile Mechanoreceptive Afferents Innervating the Human Hand	Human Sense of Touch (Invited)
3	09:45	Prof. Vincent Hayward <i>Université Pierre et Marie Curie, Paris, France</i>	Physically based Haptics	Human Sense of Touch (Invited)
	10:25	Break		
4	10:45	Dr. Luca Bologna <i>Université Pierre et Marie Curie, Paris, France</i>	Context separation of spatiotemporal haptic signals by second order somatosensory neurons	Human Sense of Touch (Invited)
5	11:15	D'Alonzo M., Beccai L. *, Alan Wing+, Carrozza M.C. <i>ARTS Lab, SSSUP, Pontedera, Italy</i> <i>*Center for Micro-BioRobotics, Italian Inst. of Tech., Pontedera, Italy</i> <i>+Behavioural Brain Sc. Centre, Univ. of Birmingham, UK</i>	Human Tactile Studies on Discrimination Threshold for Biomimetic Force Sensitive Artificial Fingertip Development	Human Sense of Touch
6	11:30	Georges Debrégeas, Julien Scheibert+, Alexis Prevost <i>Lab. de Physique Statistique, CNRS/ENS/UPMC, Paris, France</i> <i>+Physics of Geological Processes, Univ. of Oslo, Norway</i>	The role of skin topography in tactile transduction of fine textures	Human Inspired Tech.
7	11:45	D.D. Damian, M. Cadonau, K. Dermitzakis, A.H.-Arieta, R. Pfeifer <i>AI Lab, Univ. of Zurich, Switzerland</i>	Grip Stabilization of a Robot Hand through a Ridged Artificial Skin	Human Inspired Tech.
8	12:00	N. Wettels, J.A. Fishel, Z. Su, C.H. Lin, and G.E. Loeb <i>Dept. of Biomed. Engg., Univ. of Southern California, Los Angeles, USA</i>	Multi-modal Synergistic Tactile Sensing	Human Inspired Tech.
9	12:15	Prof. Vladimir Lumelsky <i>NASA, University of Maryland, USA</i>	Whole-Body Robot Sensing Is Prerequisite for Human-Robot Interaction and Teams	Tactile Utilization (Invited)
	13:00	Lunch		
10	13:45	Dr. Lorenzo Natale <i>Italian Institute of Technology, Genova, Italy</i>	A sensitive approach to grasping	Tactile Utilization (Invited)
11	14:15	A. Morales, M. Prats, J. Felip, E. Chinellato, B. Grzyb, and A. P. del Pobil <i>Robotic Intelligence Lab. Dept. of Computer Science & Engineering</i> <i>Unversitat Jaume I, Castellón, Spain</i>	Experiments on improving robust grasping and manipulation through tactile and contact-based sensing	Tactile Utilization
12	14:30	Campus C*, Brayda L*, Rodriguez G+, Chellali R* <i>*Dept. of Telerobotics & App., Italian Inst.of Tech., Genoa, Italy</i> <i>+Clinical Neurophysiology, Dept of Neurosciences, Ophthalmology and Genetics, Univ. of Genova, Italy</i>	Evaluating visuo-tactile sensory substitution for navigation in virtual worlds: preliminary euophysiological assessment and results on a tactile-based interface	Tactile Utilization
13	14:45	Amirabdollahian F, Robins B, Dautenhahn K. <i>Adaptive Systems Res. Gp, School of Comp. Sc., Univ. of Hertfordshire, Hatfield, UK.</i>	Robotic Skin Requirements Based on Case Studies on Interacting with Children with Autism	Tactile Technology

14(i)	15:00	David Silvera Tawil, David Rye and Mari Velonaki <i>Centre for Social Robotics / Australian Centre for Field Robotics, The Univ. of Sydney, Sydney, Australia</i>	Artificial Skin for Human-Robot Interaction	Poster Teaser
14(ii)		A. Pitti * , H. Alirezaei+, Y. Kuniyoshi*+ <i>*ERATO Synergistic Intelligence Project, JST, Japan</i> <i>+Lab. for Intell. Systems & Informatics, Dept. of Mechano-Informatics, Grad. School of Information Sc. & Tech, Univ. of Tokyo, Japan.</i>	Modeling the Human Sense of Touch and Agency in Multi-Modal Networks of Spiking Neurons	Poster Teaser
14(iii)		V. Sukhoy, R. Sahai, J. Sinapov and A. Stoytchev <i>Developmental Robotics Lab., Iowa State Univ., USA</i>	Vibrotactile Recognition of Surface Textures by a Humanoid Robot	Poster Teaser
14(iv)		M. Schöpfer, M. Pardowitz, H. Ritter <i>Faculty of Tech., Neuroinformatics Gp, Bielefeld Univ., Germany</i>	Evaluation of Tactile Features for Object Categorization	Poster Teaser
14(v)		A. Persichetti, , F. Vecchi, N. Vitiello, T. Lenzi, and M. C. Carrozza <i>ARTS Lab, Scuola Superiore Sant'Anna, Pontedera, Italy</i>	Skillsens: conformant and robust sensing skin	Poster Teaser
14(vi)		F. D. Libera*, T. Minato*, H. Ishiguro*+, E. Pagello*, and E. Menegatti* <i>*Dept of Information Engg., University of Padova, Italy</i> <i>*ERATO, Japan Science & Tech. Agency, Osaka, Japan</i> <i>+Dept of System Innovation, Osaka University, Japan</i>	Teaching Motions by Touching	Poster Teaser
14(vii)		F. V. Verdú, Ó. Oballe, M. J. Barquero, D. Bravo, and J. A. S. Durán <i>Department of Electronics, University of Málaga, Spain</i>	Hardware for Piezoresistive Tactile Sensors	Poster Teaser
14(viii)		M. Schöpfer, C. Schürmann, F. Schmidt, M. Pardowitz, H. Ritter <i>Faculty of Tech., Neuroinformatics Gp, Bielefeld Univ., Germany</i>	Handling of Deformable Material Using Tactile Sensors in a Bimanual Tactile Information Scenario	Poster Teaser
14(ix)		P. Cosseddu^{1,2}, L. Basiricò¹, A. Bonfiglio^{1,2} <i>1Elect. & Electronic Engg., Univ. of Cagliari, Italy</i> <i>2 S3 nanoStructures & bioSystems at Surfaces, CNR-INFN, Modena, Italy</i>	Organic Field Effect Transistors based mechanical sensors for tactile transduction	Poster Teaser
14(x)		M. Gori+*, A. Tomassini*, D. Burr+, G. Sandini+*, C. Morrone** <i>+* Istituto Italiano di Tecnologia, Genoa, Italy.</i> <i>* Università Vita-Salute San Raffaele, Milano.</i> <i>+ Dip. di Psicologia, Univ. Degli Studi di Firenze, Florence, Italy.</i> <i>**Dip. di Scienze Fisiologiche. Facoltà di Medicina, Univ. di Pisa, Italy.</i>	Neural timing mechanisms in the tactile domain	Poster Teaser
	15:20	Poster + Break		
15	15:50	Prof. Giorgio Cannata <i>DIST- University of Genova, Italy</i>	ROBOTSKIN - Skin-Based Technologies and Capabilities for Safe, Autonomous & Interactive Robots	Tactile Technology (Invited)
16	16:20	H. Alirezaei+, A. Nagakubo++, Y. Kuniyoshi+ <i>+Dept. of Mechano-Informatics, Graduate School of Information Sc. & Tech. Univ. of Tokyo, JAPAN</i> <i>++National Inst. of Adv. Ind. Sc. and Tech. Tsukuba, JAPAN</i>	Development of a highly stretchable tactile sensor with easy Wearability	Tactile Technology
17	16:35	M.W. Strohmayer and P. van der Smagt <i>Inst. of Robotics and Mechatronics, DLR - German Aerospace Center, Wessling, Germany</i>	The DLR Flexible Tactile Sensor for Robotic Hands	Tactile Technology

18	16:50	Beccai L.1,2, Oddo C.M.1, Cipriani, C1., Carrozza M.C. 1 1ARTS Lab, Scuola Superiore di Studi Universitari e di Perfezionamento Sant'Anna, Pontedera, Italy 2Center for Micro-BioRobotics, Italian Inst. of Tech., Pontedera, Italy	A biorobotic approach for artificial touch: from the development of a MEMS sensor to the tactile array integration into an actuated finger	Tactile Technology
19	17:05	Markus Fritzsche, Norbert Elkmann Robotic Sys., Fraunhofer IFF, Magdeburg, Germany	An Artificial Skin for Safe Human-Robot-Interaction	Tactile Technology
20	17:20	Grassia L+, Pirozzi S* +DIAM - Seconda Univ. di Napoli, Aversa, Italy *DII - Seconda Univ. di Napoli, Aversa, Italy,	Tactile sensor based on LED-Phototransistor couples	Tactile Technology
21	17:35	C. Schürmann, R. Haschke, H. Ritter CITEC, AG NI, University of Bielefeld, Germany	Modular high speed tactile sensor system with video interface	Tactile Technology
22	17:50	Discussion and Concluding Remarks		