Wednesday March 12, 2008

Poster/demo/exhibit setup (12:00-18:00 in Expo C)

Welcome Reception (food provided) 18:00-20:00 in Expo C)

Day 1 - Thursday March 13, 2008

Breakfast (7:00-8:15 in Pre-Function Salon)

Assemble/Welcome (8:15-8:30 in Expo A)

Oral Presentations 15 minutes total with 12 minutes to present and 3 minutes for questions.

Each 30 minute Poster Teaser Session will include presentations of a single PowerPoint slide and 1 minute oral presentation for each poster with no time allocated for questions.

Session 1 - Perception I (8:30-10:00 in Expo A)		
Paper Title	Author(s)	
The geometric model for perceived roughness	Bertram Unger, Ralph Hollis, Roberta	
applies to virtual textures	Klatzky	
The Integration and Dissociation of Thermal and	Daniel Shang, Heather Carnahan	
Frictional Cues during Material Identification		
Discrimination of Vowels with a Multi-finger	Ali Israr, Charlotte Reed, Hong Tan	
Tactual Display		
Passive and Active Kinesthetic Perception Just	Yanfang Li, Ali Israr, Volkan Patoglu,	
Noticeable Difference for Natural Frequency of	Marcia O'Malley	
Virtual Dynamic Systems		
Localization and Pattern Recognition with	Lynette Jones, Kathryn Ray	
Tactile Displays		
Discrimination of Virtual Square Gratings by	Mélisande Biet, Géry Casiez, Frédéric	
Dynamic Touch on Friction Based Tactile	Giraud, Betty Lemaire-Semail	
Displays		

Break (10:00-10:30 in Pre-Function Salon)

Session 2 - Dynamics and Controls Paper Title	s (10:30-12:00 in Expo A) Author(s)
Adaptive Control of Haptic Interaction with Impedance and Admittance Type Virtual Environments	Amin Abdossalami, Shahin Sirouspour
Haptic Solutions and Bio-Mimetically Inspired Motion Planning Strategy for Rolling-Based Locomotion	Igor Goncharenko, Mikhail Svinin, Shigeyuke Hosoe, Yutaka Kanou
Hybrid Control with Multi-Contact Interactions for 6DOF Haptic Foot Platform on a Cable-Driven Locomotion Interface	Martin J.D. Otis, Charles du Tremblay, Francois-Michel De Rainville, Marielle Mokhtari, Denis Laurendeau, Clément M. Gosselin
Measuring and Increasing Z-Width with Active Electrical Damping Stability Analysis and Davier of Multi-	David Weir, J. Edward Colgate, Michael Peshkin
Stability Analysis and Design of Multi- dimensional Haptic Systems Large Workspace Haptic Devices - A New Actuation Approach	Gianni Bianchini, Marcello Orlandesi, Domenico Prattichizzo Michael Zinn, Oussama Khatib, Bernard Roth, J. Kenneth Salisbury

Lunch 12:00-13:00

Session 3 - Rendering and Mo Paper Title	deling (13:00-14:30 in Expo A) Author(s)
Haptizing Surface Topography with Varying Stiffness Based on Force Constancy: Extended Algorithm	Jaeyoung Cheon, Inwook Hwang, Gabjong Han, Seungmoon Choi
Data-Driven Haptic Rendering of Visco-Elastic Effects	Raphael Hoever, Matthias Harders, Gabor Székely
Modeling Realistic Tool-Tissue Interactions with Haptic Feedback: A Learning-based Method	Zachary Pezzementi, Daniel Ursu, Sarthak Misra, Allison Okamura
A New Line-based Algorithm for Real Time Haptic Interactions with Virtual Environments	Anderson Maciel, Suvranu De
Perceptual Rendering for Learning Haptic Skills	Timothy Edmunds, Dinesh Pai
A Multi-criteria Design Optimization Framework for Haptic Interfaces	Ramazan Unal, Gullu Kiziltas, Volkan Patoglu

	r Teaser I (14:30-15:00 in Expo A)	
Poster ID	Paper Title	Author(s)
213	Validation of a 3-D Finite Element Human Fingerpad Model Composed of Anatomically Accurate Tissue Layers	Matt Wagner, Gregory Gerling, Jacob Scanlon
118	Finger Shell: Predicting Finger Pad Deformation under Line Loading	Mitsunori Tada, Dinesh Pai
145	Influences of Inter-Stream Synchronization Error on Collaborative Work in Haptic and Visual Environments	•
187	Force Amplitude Perception in Six Orthogonal Directions	Enkhtuvshin Dorjgotov, Gary Bertoline, Laura Arns, Zygmunt Pizlo, Steven Dunlop
111	Texture meets Text: On the Kinematics of Braille Reading	Barry Hughes, Arend W A Van Gemmert, George E. Stelmach
215	Validating the Performance of Haptic Motor Skill Training	Xing Dong Yang, Walter Bischof, Pierre Boulanger
156	Haptic Simulation of Deformable Bodies with Consideration of the Human Sensation of Continuous Forces	Gerhard Schillhuber, Heinz Ulbrich
159	Perceived Magnitudes of Vibrations Transmitted Through Mobile Device	Jonghyun Ryu, Jaehoon Jung, Seungmoon Choi
194	Effects of Proprioceptive Motion Feedback on Sighted and Non-Sighted Control of a Virtual Hand Prosthesis	Amy Blank, Allison Okamura, Katherine Kuchenbecker
227	Haptic-enabled Collaborative Training with Generalized Force and Position Mappings	Saba Moghimi, Shahin Sirouspour, Pawel Malysz
205	High Bandwidth, Large Workspace Haptic Interaction: Flying Phantoms	Alastair Barrow, William Harwin
151	Analysis of Registration Accuracy for Collocated Haptic-Visual Display System	Dangxiao Wang, Yuru Zhang, Yu Wang
199	Virtual Laboratory: a Virtual Distributed Platform to Share and Perform Experiments	Paolo Tripicchio, Emanuele Ruffaldi, Carlo Alberto Avizzano, Massimo Bergamasco
242	Voxel-Based Haptic Rendering Using Implicit Sphere Trees	Emanuele Ruffaldi, Dan Morris, Federico Barbagli, Kenneth Salisbury, Massimo Bergamasco
109	Manipulation of Dynamically Deformable Object	Kazuyoshi Tagawa, Koichi Hirota, Michitaka Hirose
209	Passive Position Feedback over Packet- Switching Communication Network with Varying-Delay and Packet-Loss	Dongjun Lee, Ke Huang
236	Mediating Time Delayed Teleoperation with User Suggested Models: Implications	Probal Mitra, Günter Niemeyer

	and Comparative Study	
240	Analysis and Experimentation of a 4-DOF	Andy Ma, Shahram Payandeh
	Haptic Device	
152	Tangible Images: Runtime Generation of	Hari Vasudevan, Manivannan
	Haptic Textures From Images	Muniyandi
238	Evaluating ALPHAN: A Communication	Mohamad Eid, Hussein Al Osman,
	Protocol for Haptic Interaction	Abdulmotaleb El Saddik

Poster/Demo Session I & Break (15:00-16:00 in Expo C) All posters and demos will be on display

Session 4 - Taction and Teleoperation (16:00-17:30 in Expo A)		
Paper Title	Author(s)	
The Touch Thimble: Providing Fingertip	Katherine Kuchenbecker, David	
Contact Feedback During Point-Force Haptic	Ferguson, Michael Kutzer, Matthew	
Interaction	Moses, Allison Okamura	
Graphical Reproduction of Tactile	Mohammadreza Ramezanifard, Saeed	
Information of Embedded Lumps for MIS	Sokhanvar, Javad Dargahi, Wen-Fang	
Applications	Xie, Muthukumaran Packirisamy	
Judging the Effectiveness of a Passive Haptic	Benjamin Black, Wayne Book	
Device in Teleoperation Based on the		
Average Angular Error in Force Generation		
Experimental Internet Haptic Collaboration	Ganesh Sankaranarayanan, Blake	
Using Virtual Coupling Schemes	Hannaford	
Telemanipulators with Sensor/Actuator	Lawton Verner, Allison Okamura	
Asymmetries Fail the Robustness Criterion		
Characterizing Teleoperator Behavior for	Paul Griffiths, Brent Gillespie	
Feedback Design and Performance Analysis		

Banquet (Sponsored by Immersion Corporation Immersion) (18:30-20:00)

Day 2 - Friday March 14, 2008

Breakfast (7:00-8:30 in Pre-Function Salon)

Session 5 - Perception II (8:30-10:15 in Paper Title	n Expo A) Author(s)
The Role of Choice in Longitudinal Recall of	Mario Enriquez, Karon MacLean
Meaningful Tactile Signals	
Haptic Rendering and Psychophysical	Vinithra Varadharajan, Roberta
Evaluation of a Virtual Three-Dimensional	Klatzky, Bertram Unger, Robert
Helical Spring	Swendsen, Ralph Hollis
Influence of Visuomotor Action on Visual-	Zhuanghua Shi, Sandra Hirche, Werner
Haptic Simultaneous Perception: A	Schneider, Hermann Müller
Psychophysical Study	
Comparison of Skin Stretch and Vibrotactile	Karlin Bark, Jason Wheeler, Sunthar
Stimulation for Feedback of Proprioceptive	Premakumar, Mark Cutkosky
Information	
Visual-Haptic Perception of Compliance:	Martin Kuschel, Franziska Freyberger,
Fusion of Visual-Haptic Information	Roberta L. Klatzky, Martin Buss,
-	Berthold Faerber
Haptic Identification of Stiffness and Force	Steven Cholewiak, Hong Tan, David
Magnitude	Ebert
Assessment of Vibrotactile Feedback in a	Sumanth Peddamatham, William Peine,
Needle-Insertion Task using a Surgical Robot	Hong Tan

Poste	Poster Teaser II (10:15-10:45 in Expo A)		
Poster	r Paper Title	Author (s)	
147	Interactive Representation of Virtual Object in Hand-Held Box by Finger-Worn Haptic Display	Kouta Minamizawa, Souichiro Fukamachi, Naoki Kawakami, Susumu Tachi	
132	1DOF Sensor and Display system of Haptic and Temparature Sensation	Hiroaki Yano, Itsuro Hayashi, Hiroo Iwata	
180	Cable-Driven Tactor for Tactile Situational Awareness Systems	Christopher Wagner, Amanda Christiana	
232	Toward Developing a Velocity Controlled Tactile Impact Display	Brian T. Gleeson, William R. Provancher	
231	A Plate Tuning Fork Shaped Tactile Display Using Elastic Waves	Chaodong Li, Hua Yao, Jingjing Xu, Yanyan Zhang, Boqian Kuang	
163	Haptic Implications of Tool Flexibility in Surgical Teleoperation	Mahdi Tavakoli, Robert Howe	
237	Passive Viscous Haptic Textures	Gianni Campion, Andrew Gosline, Vincent Hayward	

142	Tactile Graphics Rendering Using Three Laterotactile Drawing Primitives	Vincent Lévesque, Vincent Hayward
148	Navigation Guidance Control Using Haptic Feedback for Obstacle Avoidance of Omni-directional Wheelchair	Yasumasa Kondo, Takanori Miyoshi, Kazuhiko Terashima, Hideo Kitagawa
121	Feel the Pressure: E-learning System with Haptic Feedback	Felix Hamza-Lup, Michele Adams
216	Visualizing Human Behavioral Features based on Signature Haptic Data	Rosa Iglesias, Mauricio Orozco, Julio J. Valdes, Abdulmotaleb El Saddik
204	Constructing and Evaluating Vibration Magnitude Models for Visualization	Yuan Wang, Martin Turner, Terry Hewitt
223	Force-Feedback Surgical Teleoperator: Controller Design and Palpation Experiments	Mohsen Mahvash, Jim Gwilliam, Rahul Agarwal, Balazs Vagvolgyi, Li-Ming Su, David Yuh, Allison Okamura
211	Haptic Weather	Chaehyun Lee, Bernard Adelstein, Seungmoon Choi
120	Haptic Simulation of Elbow Joint Spasticity	David Grow, Mengnan (Mary) Wu, Michael Locastro, Sugandha Arora, Amy Bastian, Allison Okamura
189	A Haptic Interface with Motor/Brake System for Colonoscopy Simulation	Evren Samur, Lionel Flaction, Ulrich Spaelter, Hannes Bleuler, David Hellier, Sebastien Ourselin
224	RoSS: Virtual Reality Robotic Surgical Simulator for the DaVinci Surgical System	Ankur Baheti, Amrish Kumar, Govindarajan Srimathveeravalli, Kesavadas Thenkurissi, Khurshid Guru
203	A Tactile Display Presenting Pressure Distribution and Slippage Force	Yiru Zhou, Masahiro Ohka, Tetsu Miyaoka

Poster/Demo Session II & Break (10:45-12:15 in Expo C) All posters and demos will be on display

Lunch 12:15-13:15

Session 6 - Applications (13:15-15:00 in Expo A)		
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Paper Title	Author(s)	
Haptic Characteristics of Document	Rainer Leuschke, Regina Donlin, Maria Nugent,	
Conservation Tasks	Marc Claus, Dianne van der Reyden, Blake	
	Hannaford	
Toys in the Classroom: LEGO	Adam Brandt, Mark Colton	
MindStorms as an Educational		
Haptics Platform		
Haptic Guidance Benefits Musical	Graham Grindlay	
Motor Learning		
Full-Arm Haptics in an Accessibility	Matt Frey, David Johnson, John Hollerbach	
Task		
On the Design of a Thermal Display	Keehoon Kim, J. Edward Colgate, Michael	
for Upper Extremity Prosthetics	Peshkin	
Using Haptics to Convey Cause and	Nesra Yannier, Cagatay Basdogan, Serdar	
Effect Relations in Climate	Tasiran, Omer Lutfi Sen	
Visualization		
Modeling of the Lap-Band® for	Woojin Ahn, Daniel B. Jones, Doo Yong Lee,	
Laparoscopic Adjustable Gastric	Suvranu De	
Banding Operation		

Awards and Announcements (15:00-15:30 in Expo A)

(Sponsored by Immersion Force Dimension dimension, and SensAble Technologies

Adjourn (15:30)

Poster and demo take-down (15:30-17:00 in Expo C)

Room Map of Silver Legacy Hotel (from Hotel Site by permission)

LOWER LEVEL FLOOR PLAN & MAP

