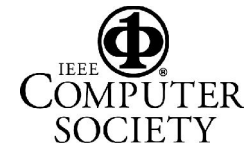




# ISWC 2003

## Wednesday, October 22



### Registration: 7:45 - Noon

7:00 – 8:30 am	<b>Continental Breakfast</b> - Pool patio area	
7:45 - Noon	<b>Registration</b>	
8:45 - 9:45 am	<b>Keynote</b> <i>Utilizing Deep Brain Stimulation to Treat Human Disease: Changing Abnormal Brain Conversation</i> Michael S. Okun Co-Director Parkinson's Disease and Movement Disorders Center University of Florida. Departments of Neurology, Neurosurgery, and Psychiatry. McKnight Brain Institute.	
9:45 – 10:15 am	<b>Break and Vendor Exhibits</b> - Pool patio area	
10:15 - 11:35 am	<b>Infrastructure</b> <ul style="list-style-type: none"> <li>◆ <i>MIThril 2003: Applications and Architecture</i> R. DeVaul, M. Sung, J. Gips, and A. Pentland Massachusetts Institute of Technology</li> <li>◆ <i>SoundButton: Design of a Low Power Wearable Audio Classification System</i> M. Stäger, P. Lukowicz, N. Perera, T. von Büren, G. Tröster, and T. Starner ETH Zürich, Georgia Institute of Technology</li> <li>◆ <i>Runtime Support for a Dynamically Composable and Adaptive Wearable System</i> (Short paper) S. Lalis, A. Karypidis, A. Savidis, and C. Stephanidis Foundation for Research and Technology Hellas, University of Thessaly, University of Crete</li> <li>◆ <i>Kinetic Energy Powered Computing - an Experimental Feasibility Study</i> (Short paper) T. von Büren, P. Lukowicz, and G. Tröster ETH Zürich</li> </ul>	Session Chair: <i>Dan Siewiorek</i>

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11:35 am– 12:45 pm	<b>Lunch</b> - Ballroom II	
12:45-2:30 pm	<b>User Interfaces</b> <ul style="list-style-type: none"> <li>◆ <i>Self-contained Spatial Input Device for Wearable Computers</i> W. Bang, W. Chang, K. Kang, E. Choi, A. Potanin, and D. Kim Samsung Advanced Institute of Technology</li> <li>◆ <i>A Shoulder Pad Insert Vibrotactile Display</i> A. Toney, L. Dunne, B. Thomas, and S. Ashdown University of South Australia, Cornell University</li> <li>◆ <i>Using Multiple Sensors for Mobile Sign Language Recognition</i> H. Brashear, T. Starner, P. Lukowicz, and H. Junker Georgia Institute of Technology, ETH Zürich</li> <li>◆ <i>WACL: Supporting Telecommunications Using Wearable Active Camera with Laser Pointer</i> (Short paper) N. Sakata, T. Kurata, T. Kato, M. Kouroggi, and H. Kuzuoka University of Tsukuba, Wakayama University, Institute of Advanced Industrial Science and Technology</li> <li>◆ <i>Effects of Functionality on Perceived Comfort of Wearables</i> (Short paper) K. Bodine and F. Gemperle Carnegie Mellon University</li> </ul>	Session Chair: <i>Brad Rhodes</i>
2:30 – 3:00 pm	<b>Break and Vendor Exhibits</b> - Pool patio area	
3:00 - 4:15 pm	<b>Indoor Tracking</b> <ul style="list-style-type: none"> <li>◆ <i>Autocalibration Algorithm for Ultrasonic Location Systems</i> P. Duff and H. Muller University of Bristol</li> <li>◆ <i>Coarse, Inexpensive, Infrared Tracking for Wearable Computing</i> D. Hallaway, T. Höllerer, and S. Feiner Columbia University, University of California, Santa Barbara</li> <li>◆ <i>RF Free Ultrasonic Positioning</i> M. McCarthy and H. Muller University of Bristol</li> </ul>	Session Chair: <i>Tobias Höllerer</i>

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4:15 – 4:30 pm	<b>Rest Room Break</b>
4:30- 5:20 pm	<b>Biosensors</b> <span style="float: right;">Session Chair: <i>Jen Healey</i></span> <ul style="list-style-type: none"> <li>◆ <i>Unsupervised, Dynamic Identification of Physiological and Activity Context in Wearable Computing</i> A. Krause, D. Siewiorek, A. Smailagic, and J. Farrington Carnegie Mellon University, BodyMedia Inc.</li> <li>◆ <i>Bioimpedance Measurement System for Smart Clothing</i> T. Vuorela, K. Kukkonen, J. Rantanen, T. Järvinen, and J. Vanhala Tampere University of Technology</li> </ul>
5:30 – 6:00 pm	<b>Leave on buses and travel to reception</b>
6:00 – 9:00 pm	<b>Evening Reception: Posters, Demos, IBM Lab Tour</b>
9:00 – 9:30 pm	<b>Travel back to hotel on buses (Return trips also run 7:30 &amp; 8:15pm)</b>

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## Wednesday Evening Reception (6-9pm)

### Posters

<ul style="list-style-type: none"><li>◆ <i>Continuous Sensing of Gesture for Control of Audio-Visual Media</i> X. Sha, G. Iachello, S. Dow, Y. Serita, T. St. Julien, and J. Fistre Georgia Institute of Technology</li><li>◆ <i>An Extended Menu Navigation Interface Using Multiple Pressure-Sensitive Strips</i> G. Blasko and S. Feiner Columbia University</li><li>◆ <i>KeyMenu: A Keyboard Based Hierarchical Menu</i> K. Lyons, N. Patel and T. Starner Georgia Institute of Technology</li><li>◆ <i>Nice2CU: Managing a Person's Augmented Memory</i> T. Kawamura, Y. Kono, and M. Kidode Nara Institute of Science and Technology</li><li>◆ <i>PadNET: Wearable Physical Activity Detection Network</i> H. Junker, P. Lukowicz, and G. Tröster ETH Zürich</li><li>◆ <i>Peer-To-Peer Policy Management System for Wearable Mobile Devices</i> M. Massimi and U. Wolz The College of New Jersey Ewing</li></ul>	<ul style="list-style-type: none"><li>◆ <i>SenSay: A Context-Aware Mobile Phone</i> D. Siewiorek, A. Smailagic, J. Furukawa, A. Krause, N. Moraveji, K. Reiger, J. Shaffer, and F. Wong Carnegie Mellon University</li><li>◆ <i>Teaching Agents for Wearable Augmented Reality Systems</i> T. Sephton California State University, Hayward</li><li>◆ <i>Using Gravity to Estimate Accelerometer Orientation</i> D. Mizell Cray, Inc.</li><li>◆ <i>Wearable Alertness Monitoring for Industrial Applications</i> G. Kaefer, G. Prochart, and R. Weiss Graz University of Technology</li><li>◆ <i>Wearables in the Workplace: Sensing Interactions at the Office</i> N. Eagle and A. Pentland Massachusetts Institute of Technology</li><li>◆ <i>Network Obsession</i> M. Dahlström Interaction Design Institute Ivrea</li></ul>
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## Wednesday Evening Reception (6-9pm)

### Demos

<ul style="list-style-type: none"> <li>◆ <i>The mobile phone can be used as the hearing aid?</i> T. Oba Keio University</li> <li>◆ <i>Fashionable Technology: SlopeStyle</i> A. Lewis Moondial</li> <li>◆ <i>Motes-Based Softwear Instruments: Continuous Sensing of Gesture for Control of Audio-Visual Media</i> G. Iachello Georgia Institute of Technology</li> <li>◆ <i>AR Teaching Agents</i> T. Sephton Fun House Films</li> <li>◆ <i>Shoulder Pad Insert Vibrotactile</i> B. Thomas University of South Australia</li> <li>◆ <i>MIThril 2003: Applications and Architecture</i> R. DeVaul Massachusetts Institute of Technology</li> </ul>	<ul style="list-style-type: none"> <li>◆ <i>First Steps Towards Handheld Augmented Reality</i> D. Wagner Tuwien Univeristy</li> <li>◆ <i>Using Multiple Sensors for Mobile Sign Language Recognition</i> H. Brashear Georgia Institute of Technology</li> <li>◆ <i>Network Obsession</i> M. Dahlström Interaction Design Institute Ivrea</li> <li>◆ <i>Sociometer</i> T. Choudhury Massachusetts Institute of Technology</li> <li>◆ <i>PadNET: Wearable Physical Activity Detection Network</i> H. Junker ETH Zürich</li> </ul>
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## Thursday, October 23

**Registration: 8:00am – 10:00am**

7:00 – 8:30 am	<b>Continental Breakfast</b> - Pool patio area
8:00 – 10:00 am	<b>Registration</b>
8:30- 9:45 am	<p><b>Augmented Reality</b> <span style="float: right;">Session Chair: <i>Bruce Thomas</i></span></p> <ul style="list-style-type: none"> <li>◆ <i>A Wearable Augmented Reality System Using Positioning Infrastructures and a Pedometer</i> R. Tenmoku, M. Kanbara, and N. Yokoya Nara Institute of Science and Technology</li> <li>◆ <i>Authoring 3D Hypermedia for Wearable Augmented and Virtual Reality</i> S. Güven and S. Feiner Columbia University</li> <li>◆ <i>First Steps Towards Handheld Augmented Reality</i> D. Wagner and D. Schmalstieg Vienna University of Technology</li> </ul>
9:45 – 10:15 am	<b>Break and Vendor Exhibits</b> - Pool patio area
10:15-11:45 am	<p><b>Music, Memory, and Annotation</b> <span style="float: right;">Session Chair: <i>Yohan Baillot</i></span></p> <ul style="list-style-type: none"> <li>◆ <i>The Memory Glasses: Subliminal vs. Overt Memory Support with Imperfect Information</i> R. DeVaul, A. Pentland, and V. Corey Massachusetts Institute of Technology, Harvard Medical School</li> <li>◆ <i>Layered Annotations of Digital Images for Data Collection in the Field</i> J. Cross, C. Baber, and S. Woolley University of Birmingham</li> <li>◆ <i>A Wearable Networked MP3 Player and "Turntable" for Collaborative Scratching</i> M. Hans and M. Smith Hewlett-Packard Labs</li> <li>◆ <i>Sonic City: Prototyping a Wearable Experience</i> (Short paper) R. Mazé and M. Jacobs PLAY studio, Interactive Institute</li> </ul>

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11:45 am - 12:45 pm	<b>Lunch</b> – Ballroom II
12:45-1:30 pm	<b>Gadget Show</b>
1:30-2:35 pm	<p><b>Inertial Sensors and Dead Reckoning</b> <span style="float: right;">Session Chair: <i>David Mizell</i></span></p> <ul style="list-style-type: none"> <li>◆ <i>Personal Position Measurement Using Dead Reckoning</i> C. Randell, C. Djiallis, and H. Muller University of Bristol</li> <li>◆ <i>A Wearable Sense of Balance Monitoring System towards Daily Health Care Monitoring</i> S. Matsushita, T. Oba, K. Otsuki, M. Toji, J. Otsuki, and K. Ogawa Toyo University, Tokyo Saiseikai Central Hospital, Keio University</li> <li>◆ <i>Speedy: A fall detector in a wristwatch</i> (Short paper) T. Degen, H. Jaeckel, M. Rufer, and S. Wyss ETH Zürich</li> </ul>
2:35 – 3:05 pm	<b>Break and Vendor Exhibits</b> - Pool patio area
3:05 - 4:10 pm	<p><b>Electronic Textiles</b> <span style="float: right;">Session Chair: <i>Gerhard Tröster</i></span></p> <ul style="list-style-type: none"> <li>◆ <i>Towards a design framework for wearable electronic textiles</i> T. Martin, M. Jones, J. Edmison, and R. Shenoy Virginia Tech</li> <li>◆ <i>Resistive Fibre-Meshed Transducers</i> R. Wijesiriwardana, T. Dias, and S. Mukhopadhyay William Lee Innovation Centre, UMIST</li> <li>◆ <i>Technology Development for Building Flexible Silicon Functional Fibres</i> (Short paper) T. Healy, J. Donnelly, B. O'Neill, J. Alderman, A. Mathewson, F. Clemens, J. Heiber, T. Graule, A. Ullsperger, W. Hartmann, C. Papadas, and N. Venios NMRC, University College Cork, EMPA, KSI, ISD</li> </ul>
4:10 – 4:40 pm	<b>Break and Vendor Exhibits</b> - Pool patio area

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4:40 - 5:45 pm	<p><b>Sensing Context</b></p> <ul style="list-style-type: none"> <li>◆ <i>Sensing and Modeling Human Networks using the Sociometer</i> T. Choudhury and A. Pentland Massachusetts Institute of Technology</li> <li>◆ <i>ContextAware Notification for Wearable Computing</i> N. Kern and B. Schiele ETH Zürich</li> <li>◆ <i>Shoes as a Platform for Vision</i> (Short paper) P. Fitzpatrick and C. Kemp Massachusetts Institute of Technology</li> </ul>	Session Chair: <i>Thad Starner</i>
5:45 – 6:00 pm	<b>Closing Remarks</b>	
6:00 – 7:30 pm	<b>Planning for ISWC 2004</b>	

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