Welcome to ISWC 2002!

Tutorials, technical sessions, posters, fashion show, exhibits, case studies and refreshment breaks will be held in the Husky Student Union Building (HUB). The Tuesday evening reception and demonstration session will be held in the Human Interface Technology Lab (HIT Lab) in Fluke Hall on campus. Lunches are on your own.

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Thank you to the 2002 ISWC Corporate Supporters

Microvision
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Sponsored by the IEEE Computer Society
ISWC 2002 Exhibits

Location: Room 106B, HUB

Exhibit hours: Tuesday, October 8
9:00 a.m.–6:00 p.m.

Wednesday, October 9
9:00 a.m.–5:00 p.m.

Vendors:
Charmed Technology
www.charmed.com

Foster-Miller
www.foster-miller.com

Wearable Computing Lab
Swiss Federal Inst. of Technology (ETH)
and Georgia Tech
www.colab.ethz.ch
wearables.cc.gatech.edu

Microvision, Inc.
www.mvis.com

Symbol Technologies
www.symbol.com

Refreshment Breaks
Mid-morning and afternoon refreshment breaks will be served in the exhibit area.
The exhibit area will also be open during the lunch break on Tuesday and Wednesday.

Email Access
A bank of computers will be available in the exhibit area for symposium participants to check email. These computers will be accessible during the hours the exhibit hall is open. There will also be wireless access available throughout the conference space.

ISWC 2002 Tutorials

Monday, October 7, 2002

8:00am Registration Desk Open / Tutorial Check-in
Room 310, HUB

9:00am Morning Tutorial Sessions

Room 209A, HUB
Wearable Computing User Interface Development
L. Davis, D. Newell

Room 209B, HUB
An Introduction to Wearable Computing
T. Starner

12:30pm Lunch on your own

2:00pm Afternoon Tutorial Sessions

Room 209B, HUB
Low Power Communication/Computing with Today’s Hardware
J. Bakker

Room 209A, HUB
Wearable Computers for Persons with Disabilities
M. Gandy
ISWC 2002
Tuesday, October 8, 2002

8:00am  Registration Desk Open
Continental Breakfast
Auditorium Foyer, HUB

9:00am  ISWC Exhibits Open
106B, HUB

9:00am  Opening and Keynote
Auditorium, HUB
Welcome and Opening Remarks
Mark Billinghurst, Symposium Chair, ISWC 2002
Retinal Displays
T. A. Furness

10:00am  Refreshment Break and Exhibits
106B, HUB

10:30am  Applications
Auditorium, HUB
Personalized Augmented Reality Touring of Archaeological Sites with Wearable and Mobile Computers
V. Vlahakis, J. Karigiannis, M. Tsotros, N. Ioannidis, and D. Stricker
A Wearable Computer for Support of Astronaut Extravehicular Activity
C. E. Carr, S. J. Schwartz, and I. Rosenberg
Wearable Interfaces for a Video Diary: Towards Memory Retrieval, Exchange, and Transportation
T. Kawamura, Y. Kono, and M. Kidode

12:00pm  Exhibits Open
106B, HUB
Lunch on your own

1:30pm  Clothing
Auditorium, HUB
Using Piezoelectric Materials for Wearable Electronic Textiles
J. Edmison, M. Jones, Z. Nakad, and T. Martin
Multi-Sensor Context Aware Clothing
K. Van Laerhoven, A. Schmidt, and H.-W. Gellersen

3:30pm  Refreshment Break and Exhibits
HUB 106B

4:00pm  Hardware
Auditorium, HUB
SNAP&TELL: A Multi-Modal Wearable Computer Interface for Browsing the Environment
T. Keaton, S. M. Dominguez, and A. H. Sayed
Mediated Reality Using Computer Graphics
J. Fung, F. Tang, and S. Mann
EyeTap Video-Based Featureless Projective Motion Estimation Assisted by Gyroscopic Tracking
C. Aimone, A. Marjan, and S. Mann

5:45pm  Break and Exhibits
HUB Auditorium Foyer and 106B

6:00pm  ISWC Fashion Show - free and open to the public
Auditorium, HUB
Komposite (www.komposite.com) is pleased to present the International Symposium on Wearable Computers Fashion Show. They will be presenting the latest in wearable technologies developed in labs around the world, featuring mobile input/output peripherals, portable computing devices, and integrated textiles. Watch professional models demonstrate a range of technologies and designs, from sexy sportswear to fresh-from-the-lab input devices.

6:30–  Demos/ ISWC Reception
9:30pm  HIT Lab, Fluke Hall

ISWC 2002
Tuesday, October 8, 2002

Minimal Social Weight User Interactions for Wearable Computers in Business Suits
A. Toney, B. Mulley, B. H. Thomas, and W. Piekarski

The Comfort Assessment of Wearable Computers
J. F. Knight, C. Baber, A. Schwirtz, and H. W. Bristow
8:00am  Registration Desk Open  
Auditorium Foyer, HUB

8:00am  Continental Breakfast  
Auditorium Foyer, HUB

9:00am  ISWC Exhibits Open  
HUB 106B

9:00am  Keynote  
Auditorium, HUB
  Is There Space for Wearables?  
  S. J. Schwartz, J. A. Hoffman, E. Hodgson, and P. A. Ronzani

10:00am  Refreshment Break and Exhibits  
HUB 106B

10:00am  Location  
Auditorium, HUB
  Learning Significant Locations and Predicting User Movement with GPS  
  D. Ashbrook and T. Starner
  Visual Registration for Geographical Labeling in Wearable Computing  
  K. Xu, A. D. Cheok, K. W. Chia, and S. J. D. Prince
  Exploring the Dynamic Measurement of Position  
  C. Randell and H. L. Muller

12:00pm  Exhibits Open- 106B  
Lunch on your own

1:30pm  Case Studies  
Auditorium, HUB
  Authors: Sonny Kirkley (Information in Place, Inc.), Chris Borland (Information in Place, Inc.)
  Textile Integration of a Speech-Controlled Audio Player System  
  Authors: Stefan Jung (Infineon Technologies), Christl Lauterbach (Infineon Technologies), Guido Stromberg (Infineon Technologies AG), Werner Weber (Infineon Technologies)
  Enhancing Operator Feedback during Catheter-Deployed Closures of Cardiac Septal Defects Using a Head-Worn Confluent Display of Fluoroscopic and Echocardiographic Images  
  Authors: David Ormerod (Microvision, Inc.)

2:30pm– Poster Session  
see next page for poster listing
ISWC 2002
Wednesday, October 9, 2002

2:30pm– Poster Session
Auditorium Foyer, HUB
Afternoon refreshments; exhibits open

Efficient Image Segmentation of Walking Hazards Using IR Illumination in Wearable Low Vision Aids
C. M. Lee, K. E. Schroder, and E. J. Seibel

Development and Demonstration of Wearable Computer Based Interactive Nomadic Gallery

Use of a See-Through Head-Worn Display of Patient Monitoring Data to Enhance Anesthesiologists’ Response to Abnormal Clinical Events
D. F. Ormerod, B. Ross, and A. Naluai-Cecchini

AMON: A Wearable Medical Computer for High Risk Patients

Defect Distribution for Wearable System Design
J. G. Dorsey and D. P. Siewiorek

Online Power Monitoring for Wearable Systems
J. G. Dorsey and D. P. Siewiorek

Bridging the Gap between Virtual and Physical Games Using Wearable Sensors
S. Antifakos and B. Schiele

Toward the Zero Attention Interface: Wearable Subliminal Cuing for Short Term Memory Support
R. W. DeVau and A. Pentland

An Aural User Interface for Ubiquitous Computing
G. R. Borden IV

Wearable Robotics as a Behavioral Interface: The Study of the Parasitic Humanoid
T. Maeda, H. Ando, M. Sugimoto, J. Watanabe, and T. Miki

4:00pm  Context
Auditorium, HUB
Perspective Map
J. Lehikoinen and R. Suomela

Evaluating Contextual Information for Wearable Computing
H. W. Bristow, C. Baber, J. Cross, and S. Woolley

Wearable Sensing to Annotate Meeting Recordings
N. Kern, B. Schiele, H. Junker, P. Lukowicz, and G. Tröster

ISWC 2002
Seattle
8:00am  Registration Desk Open

Continental Breakfast
Auditorium Foyer, HUB

8:30am  Keynote
Auditorium, HUB
Time and Time Again: Parallels in the Development of the Watch and the Wearable Computer
T. L. Martin

9:00am  Theory
Auditorium, HUB
Using Wearable Computers to Construct Semantic Representations of Physical Spaces
F. Diaz
Programming Language Support for Adaptable Wearable Computing
P. K. McKinley, S. M. Sadjadi, E. P. Kasten, and R. Kalaskar

10:00am  Refreshment Break
Auditorium Foyer, HUB

10:30am  Video
Auditorium, HUB
Reconfigurable Hardware in Wearable Computing Nodes
C. Plessl, R. Enzler, H. Walder, J. Beutel, M. Platzner, and L. Thiele
Micro-Accelerometer Based Hardware Interfaces for Wearable Computer Mixed Reality Applications
A. D. Cheok, K. G. Kumar, and S. Prince
Design of a Wearable Sensor Badge for Smart Kindergarten
S. Park, I. Locher, A. Savvides, M. B. Srivastava, A. Chen, R. Muntz, and S. Yuen

12:00pm  Lunch on your own

1:30pm  Case Studies
Auditorium, HUB
Air-Larynx: The Wearable and Wireless Speech Production Substitute
Authors: Toshihiko Oba (Dept. of Otolaryngol. School of Medicine, Keio University)
Usability Evaluation for Wearable Computer in the Field: Lessons Learned
Author: Mika Röykkee (Nokia Research Center)
Tinmith-Endeavour: A Platform for Outdoor Augmented Reality Research
Authors: Wayne Piekarski (University of South Australia), Bruce Thomas (University of South Australia), Rudi Vernik (Defence Science Technology Organisation), Peter Evdokiou (Defence Science Technology Organisation)

2:30pm  Gadget Show!
Auditorium, HUB
This session is very much ad-hoc. Bring along any kind of interesting gadget which you think other people would like to see. The gadget show has been very popular before and is always good for a laugh. You cannot miss this session.

3:30pm  Closing Ceremony
Auditorium, HUB

4:00pm  IEEE TC WIS Business Meeting
Auditorium, HUB