



# Cumulative Bio-Bibliography

## University of California, Santa Cruz

September 9th, 2010

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### Sri Hastuti Kurniawan

Assistant Professor of Computer Engineering

Biobib last revised:

#### EMPLOYMENT HISTORY

- 06/16/08-09 /12/08 Visiting researcher, National Institute of Advanced Industrial Science and Technology (AIST)
- 07/01/07 Assistant Professor of Computer Engineering, University of California, Santa Cruz
- 10/21/01-10 /31/07 Lecturer (equivalent to Assistant Professor), School of Informatics and Manchester Business School, From 09/15/07 it's a leave without pay, University of Manchester
- 1995-1997 Senior Field Engineer, NUMAR Corp, a Halliburton Energy Services company
- 1993-1995 Field Engineer, Schlumberger Oilfield Services

#### EDUCATION

- 2001 PhD, Industrial and Manufacturing Engineering, Major in HCI, minor in Computer Science, Department of Industrial and Manufacturing Engineering, Wayne State U
- 1997 MPhil, Human Factors, Department of Industrial Engineering and Logistics Management, Hong Kong University of Science and Technology
- 1993 BEng, Electronics Engineering, major in Telecommunications, minor in Computation, Department of Electronics Engineering, Satya Wacana Christian University

#### HONORS AND AWARDS

- 2010 Award from UCSC Disability Resource Center for creating a welcoming campus climate for students with disabilities, especially those with learning, psychological, Autism Spectrum, and other disabilities that are not always apparent
- 2008 Academic Senate Committee on Research - FRG, Research on "Investigating Browsing Behavior of Web Users with Visual Impairment", 2008-2008
- 2008 General Non-Tenure Faculty Award, July 2008-June 2009
- 2007 Travel award. Conference attendance, ASSETS, Tempe, AZ, USA. Royal Society
- 2006 Fellow, Higher Education Academy
- 2005 Averil Osborne Award, The British Society of Gerontology. Research on "Making Mobile Phones More Useful for Older People".
- 2004 Member through accredited route, Higher Education Academy
- 2004 Teaching Award - runner up, The University of Manchester (for revamping the Personal and Professional Development Module)
- 2003 Widening Participation Award, The University of Manchester (for structuring personal tutorial session for induction week)
- 2003 Curriculum Innovation Award, The University of Manchester (for revising the Personal and Professional Development module to comply with the QAA Policy Statement on Progress Files)
- 2003 Travel Award. Conference attendance, HCII, Crete, Greece. Royal Society
- 2003 Travel award. Research exchange, Czech Technical University in Prague. Leonardo European training for the UK
- 2002 Awards to Newly Appointed Lecturers in Science, Engineering & Mathematics, The Nuffield Foundation. Research on "Quantitative modelling of older adults' motor, cognitive and perceptual abilities and suitable computer's accessibility level"., 2002-2005

## GRANTS - Total = \$1,146,065

- 2010 NSF, Generation games for girls \$75,000 01/08/2010-31/07/2011
- 2010 UCSC Committee on Research, Usability and Accessibility Assessments of eCommons and User Evaluation of eCommons in the context of Human-Computer Interaction \$8,000 June 6, 2010-June 5, 2011
- 2010 UC Mexus, Persuasive Technology for Teenagers' Physical Activity: A Comparative International Study Faculty Advisor on Small Grants for UC Students for Sonia Arteaga \$1,500 January 2010-June 2010
- 2010 NSF CAREER, Document formatting and layout helper for blind authors \$516,565 2011-2016
- 2008 Microsoft Research, Virtual Speech Therapist for Malay Stroke Survivors \$100,000 2008-2009
- 2008 CITRIS, Virtual Speech Therapist for Stroke Survivors \$75,000 05/05/2008-05/04/2009
- 2008 UC Micro, Virtual Speech Therapist for Stroke Survivors with Aphasia in Rural Malaysia Matching fund for Microsoft Research award to perform development with other mobile platforms \$32,000 2008-2009
- 2007 UK's Arts and Humanities Research Council, BBC, Inhibited Exploration of Older Customers of Digital Services Amount = GBP 90,000 \$180,000 11/1/2007-10/31/2008
- 2006 BBC, Investigating Accessibility Requirements for Digital TV. Amount = GBP 30,000 \$60,000 2006-2007
- 2006 Engineering and Physical Science Research Council, Adapting support to sustain autonomy: understanding the implications of changing capabilities for older ICT users Preparatory network grant - funding to form a larger consortium and to write a network of excellence proposal. The lead institution is Loughborough University. Amount = GBP 35,000 \$70,000 2006-2007
- 2004 The University of Manchester, Equipment grant To buy equipment to allow interactive prototyping for the Graduate HCI course. Amount = GBP 1500 \$3,000 2004-2004
- 2000 WSU Targets of Opportunity, Usability Enhancement of Web-based Health Information: Navigation Aids for Older Adults This grant provides funding for my PhD dissertation \$25,000 2000-2001

## WRITINGS AND CREATIVE ACTIVITIES IN PROGRESS

### Articles in Professional Journals

- J16 **In Press:** Gonzales, V.M., Jomhari, N., Kurniawan, S.H., Photo-based Narratives as Communication Mediators between Grandparents and their Living Abroad Children and Grandchildren, D. Harley, S. Kurniawan, G. Fitzpatrick, F. Vetere, *Universal Access in the Information Society (UAIS) International Journal, Special Issue on The Intergenerational Context as an Emphasis for Design* No pagination, Springer Verlag PEER REVIEWED **Forwarded**

### Conference Proceedings

- C69 **In Press:** Kurniawan, S.H., Arteaga, S., Manduchi, R., A General Education Course on Universal Access, Disability, Technology and Society, *Proc. of the 12th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'10)*, New York, USA, ACM, No pagination PEER REVIEWED **Forwarded**
- C68 **In Press:** Kurniawan, S.H., Arteaga, S., Walker, L., Motivating Teenagers Physical Activity Through Mobile Games, *Proceedings of the 2010 Grace Hopper Conference*, No pagination PEER REVIEWED **Forwarded**
- C70 **In Press:** Manduchi, R., Kurniawan, S.H., Bagherinia, H., Blind Guidance Using Mobile Computer Vision: A Usability Study, *Proc of 12th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2010)*, No pagination Presented as poster **Forwarded**

## PUBLISHED WRITINGS AND CREATIVE ACTIVITIES

### Edited Books and Monographs

- EB2 2007 Zaphiris, P., Kurniawan, S.H., *Human Computer Interaction Research in Web Design and Evaluation*, Hershey, PA, USA, IGI Global PEER REVIEWED **Forwarded**
- EB1 2007 Kurniawan, S.H., Zaphiris, P., *Advances in Universal Web Design and Evaluation: Research, Trends and Opportunities*, Hershey, PA, USA, IGI Global PEER REVIEWED **Forwarded**

### Articles in Professional Journals

- J15 2008 Kurniawan, S.H., Older People and Mobile Phones: A Multi-Method investigation, S. Brewster, A. Oulasvirta, *International Journal of Human Computer Studies* 889-901 Special Issue on Mobility PEER REVIEWED **Forwarded**
- J14 2007 Zaphiris, P., Kurniawan, S.H., Ghiawadwala, M. A., Systematic Approach to the Development of Research-Based Web Design Guidelines for Older People, *Universal Access in the Information Society* 6(1), 59-75 PEER REVIEWED **Forwarded**
- J13 2006 Kurniawan, S.H., Evans, D.G. King, A., Blenkhorn, P., Personalizing Web Page Presentation for Older People, *Interacting with Computers* 18, 457-477 PEER REVIEWED
- J12 2006 Sutcliffe, A.G., Kurniawan, S.H., Shin, J., Methods and Tools for Designing Attractive Multimedia User Interfaces, *International Journal of Human-Computer Studies* 64, 375-392 PEER REVIEWED

- J11 2006 Sa-nga-ngam, P., Kurniawan, S.H., An Investigation into Older People's Browsing Activities, *Psychology* 4(3), 245-265 PEER REVIEWED
- J10 2006 Sporka, A., Kurniawan, S.H., Slavik, P., Acoustic Control of Mouse Pointer, *Universal Access in the Information Society* 4, 237-245 PEER REVIEWED
- J9 2005 Kurniawan, S.H., Sporka, A., Nemecek, V., Slavik, P., On Design and User Evaluation of a Spatial Audio Rendering System for Blind Users, *International Journal on Disability and Human Development, Special Issue on Disability, Virtual Reality and Rehabilitation* 4(4), 317-324 PEER REVIEWED
- J8 2003 Evans, D.G., Diggle, T., Kurniawan, S.H., Blenkhorn, P.L., An investigation into formatting and lay out errors produced by blind word-processor users and an evaluation of prototype error prevention and correction techniques, *IEEE Transactions on Neural Systems and Rehabilitation Engineering* 11(3), 257-268 PEER REVIEWED
- J7 2003 Blenkhorn, P., Evans, D.G. King, A., Kurniawan, S.H., Sutcliffe, A.G., Screen Magnifiers: Architecture, Evolution and Evaluation, L. Miguel Encarnação, Lawrence J. Hettinger, *IEEE Computer Graphics and Applications special issue: Multimodal Interfaces* September/October, 54-61 PEER REVIEWED
- J6 2003 Kurniawan, S.H., Sutcliffe, A.G., Blenkhorn, P.L., Shin, J., Investigating the Usability of a Screen Reader and Mental Models of Blind Users in the Windows Environment, *International Journal of Rehabilitation Research* 26(2), 145-148, Philadelphia, USA, Lippincott Williams & Wilkins PEER REVIEWED
- J5 2003 Kurniawan, S.H., Zaphiris, P., Web Health Information Architecture for Older Adults, B. Shneiderman, J. Lazar, M. Ivory, *IT and Online Society, Special Issue on Web Navigation* 1(3), 42-63 PEER REVIEWED
- J4 2002 Kurniawan, S.H., Zaphiris, P., Ellis, R.D., Older and Younger Adults' Time and Errors in Expandable and Sequential Hierarchies, *Gerontechnology* 2(2), 203-205, Valkenswaard, the Netherlands, HoLaPress Science PEER REVIEWED
- J3 2002 Kurniawan, S.H., Ellis, R.D., Allaire, J.C., The Impact of Age, Web Self-Efficacy, and Web Experience on Bookmark Manipulation, *Universal Access in the Information Society* 1(3), 207-216, Morgan Kaufmann, Heidelberg, Germany PEER REVIEWED
- J2 2001 Zaphiris, P., Kurniawan, S.H., Usability and Accessibility Comparison of Governmental, Organizational, Educational and Commercial Aging/Health-Related Web Sites, *WebNet Journal: Internet Technologies, Applications, Issues* 3(3), 45-52, Norfolk, USA, AACE Press PEER REVIEWED
- J1 2000 Ellis, R.D., Kurniawan, S.H., Increasing the usability of online information for older users: A case study in participatory design, *International Journal of Human-Computer Interaction* 2(12), 263-276, Mahwah, USA, Lawrence Erlbaum PEER REVIEWED

#### Conference Proceedings

- C66 2010 Arteaga, S., Woodworth, A., Kudaki, M., Kurniawan, S.H., Mobile system to motivate teenagers' physical activity, *Proc. the 9th International Conference on Interaction Design and Children (IDC'10)*, New York, USA, ACM, 1-10 PEER REVIEWED **Forwarded**
- C65 2010 Sali, S., Wardrip-Fruit, N., Dow, S., Kurniawan, S.H., Reed, A., Mateas, M., Liu, R., Playing with Words: From intuition to evaluation of game dialogue interfaces, *Proceedings of Foundations of Digital Games 2010 (FDG'10) conference* 179-186 PEER REVIEWED **Forwarded**
- C64 2010 Hullett, K., Kurniawan, S.H., Wardrip-Fruin, N., Better Game Studies Education the Carcassonne Way, *Proceedings of the Digital Games Research Association 2009*, No pagination PEER REVIEWED **Forwarded**
- C63 2009 Jomhari, N., Gonzales, V.M., Kurniawan, S.H., See the Apple of My Eye: Baby Storytelling in Social Space, *People and Computers XXIII: Celebrating people and technology (Proceedings of 23rd BCS conference on Human-Computer Interaction)* 238-243 PEER REVIEWED **Forwarded**
- C62 2009 Allman, T., Dhillon, R. K., Landau, M. A., and Kurniawan, S. H., Rock Vibe: Rock Band computer games for people with no or limited vision, *Proceeding of the 11th international ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '09)*, ACM Press, 51-58 PEER REVIEWED **Forwarded**
- C61 2008 Arteaga, S., Chevalier, J., Coile, A., Hill, A. W., Sali, S., Sudhakhrisnan, S., and Kurniawan, S. H., Low-Cost Accelerometry-Based Posture Monitoring System for Stroke Survivors, *Proceedings of ASSETS 2008*, ACM Press, 243-244 Demonstration PEER REVIEWED **Forwarded**
- C60 2008 Kurniawan, S.H., Intergenerational Learning through World of Warcraft, *Proceedings of DIGITEL 2008 (the 2nd IEEE International Conference on Digital Game and Intelligent Toy Enhanced Learning)*, IEEE Press, 98-102 PEER REVIEWED **Forwarded**
- C59 2008 Gonzalez, V.M., Kurniawan, S.H., On new media for intergenerational communication: The case of Geriatric1927, *Proc. IEEE International Symposium on Technology and Society (ISTAS)*, Fredericton, NB, Canada, June 26-28, 1-4 PEER REVIEWED **Forwarded**
- C58 2008 Hamasaki, M., Eto, K., Watanabe, K., Nishimura, T., Kurniawan, S.H., Automatic Citation Visualization for Collaborative Contents Creation and Sharing Platform, *Proceedings of CSCW (Computer Supported Collaborative Work) 2008*, No pagination Integrated Demos **Forwarded**
- C67 2008 Jomhari, N., Gonzalez, V., and Kurniawan, S. H., Telling my Baby's Stories: Family Communication and Narrative Practices of Young Mothers Living Abroad, *Proceedings of the 20th Australasian Conference on Computer-Human Interaction: Designing for Habitus and Habitat (OZCHI 2008)*, New York, USA, ACM Press, 311-314 PEER REVIEWED **Forwarded**

- C57 2007 Kurniawan, S.H., Older Women and Digital TV: A Case Study, *Proceedings of ASSETS'07, Tempe, AZ, 23-27 October*, pp. 251-252 Presented as poster PEER REVIEWED **Forwarded**
- C56 2007 Mahmud, M., Sporka, A.J, Kurniawan, S.H., Slavik, P. A, Comparative Longitudinal Study of Non-Verbal Mouse Pointer, *Proceedings of INTERACT'07, Rio de Janeiro, Brazil, 10-14 September*, pp. 489-502 PEER REVIEWED **Forwarded**
- C55 2007 Sporka, A.J, Kurniawan, S.H., Mahmud, M., Slavik, P., Longitudinal Study of Continuous Non-Speech Operated Mouse Pointer, *CHI '07 Extended Abstracts, San Jose, CA, USA, April 28 - May 03*, pp. 2669 - 2674 Presented as poster PEER REVIEWED **Forwarded**
- C54 2007 Cao, X., Kurniawan, S.H., Designing Mobile Phone Interface with Children, *CHI '07 Extended Abstracts, San Jose, CA, USA, April 28 - May 03*, pp. 2309-2314 Presented as poster PEER REVIEWED **Forwarded**
- C53 2007 Sa-nga-ngam, P., Kurniawan, S.H., An Investigation into Older Persons' Browser Usage, *Proceedings of HCII'07, Beijing, China, July 22-27*, Vol 5, No pagination PEER REVIEWED **Forwarded**
- C52 2007 Sa-nga-ngam, P., Kurniawan, S.H., A Comparative Study of Thai and UK Older Web Browsers, *Proceedings of HCII'07, Beijing, China, July 22-27*, Vol 10, No pagination PEER REVIEWED **Forwarded**
- C51 2006 Sporka, A.J, Kurniawan, S.H., Mahmud, M., Slavik, P., Non-speech Input and Speech Recognition for Real-time Control of Computer Games, *Proceedings of ASSETS'06, 23-25 October 2006*, Portland, USA, 213-220 PEER REVIEWED
- C50 2006 Sa-nga-ngam, P, Kurniawan, S.H., A Three-Countries Case Study of Older People's Browsing, *Proceedings of ASSETS'06, Portland, USA, 23-25 October 2006*, Portland, USA, 223-224, No pagination Presented as poster
- C49 2006 Kurniawan, S.H., An Exploratory Study of How Older Women Use Mobile Phones, *Proceedings of UbiComp'06, Orange County, CA, USA, 17-21 September 2006*, Orange County, CA, USA, 105-122 PEER REVIEWED
- C48 2006 Kurniawan, S.H., Mahmud, M, Nugroho, Y., A Study of the Use of Mobile Phones by Older Persons, *Extended Abstracts of CHI'06*, New York, USA, ACM Press, 989-994 Presented as poster
- C47 2006 Sporka, A.J., Kurniawan, S.H., Slavik, P., Non-speech Operated Emulation of Keyboard, *Proceedings of the 3rd Cambridge Workshop on Universal Access and Assistive Technology (CWUAAT'06)*, Cambridge, UK, 145-154 PEER REVIEWED
- C46 2005 Kurniawan, S., Zaphiris, P., Research-Derived Web Design Guidelines for Older People, *Proceedings of Seventh International ACM SIGACCESS Conference on Computers and Accessibility 2005 (ASSETS'05)* 129-135 PEER REVIEWED
- C45 2005 Mahmud, M., Kurniawan, S.H., Involving Psychometric Tests for Input Device Evaluation for Older People, *Proceedings of Annual Conference of the Australian Computer-Human Interaction Special Interest Group 2005 (OZCHI'05)* 1-10 PEER REVIEWED
- C44 2005 Sporka, A., Kurniawan, S.H., Slavik, P., Mahmud, M., Tonal Control of Mouse Cursor: A Usability Study with The Elderly, *Proceedings of HCII'05. Las Vegas, USA, 25-27 July 2005*, (CD-ROM) PEER REVIEWED
- C43 2005 Mahmud, M., Kurniawan, S.H., Incorporating User Ability Test in Evaluating Pointing Devices, *Proceedings of HCII'05. Las Vegas, USA, 25-27 July 2005*, Las Vegas, USA, (CD-ROM) PEER REVIEWED
- C42 2004 Kurniawan, S.H., Sporka, A., Nemeč, V., Slavik, P., Design and User Evaluation of a Spatial Audio System for Blind Users, *Proceedings of the 5th International Conference Series on Disability, Virtual Reality and Associated Technologies (ICDVRAT'04)*, Oxford, UK, September, 175-182 PEER REVIEWED
- C41 2004 Kurniawan, S.H., Sporka, A.J., Nemeč, V., Slavik, P., Design and Evaluation of Computer-Simulated Spatial Sound, *Proceedings of the 2nd Cambridge Workshop on Universal Access and Assistive Technology (CWUAAT'04)* 137-146 PEER REVIEWED
- C40 2004 Sporka, A., Kurniawan, S.H., Slavik, P., Whistling User Interface (U3I), *Proceedings of the 8th ERCIM Workshop: "User Interfaces for All" (UI4ALL'04)*, Vienna, Austria, June, No pagination PEER REVIEWED
- C39 2003 Kurniawan, S.H., Sutcliffe, A.G., Blenkhorn, P.L., How Blind Users' Mental Models Affect Their Perceived Usability of an Unfamiliar Screen Reader, M. Rauterberg, M. Menozzi, J. Wesson, *Human-Computer Interaction (Proceedings of INTERACT'03. Zurich, Switzerland, 1-5 September 2003)*, Amsterdam, the Netherlands, IOS Press, 631-638
- C38 2003 Kurniawan, S.H., King, A., Evans, D.G., Blenkhorn, P.L., Design and User Evaluation of a Joystick-Operated Full-Screen Magnifier, *Proceedings of CHI'03*, Ft. Lauderdale, ACM Press, 5-10 Apr, 25-32 PEER REVIEWED
- C37 2003 Kurniawan, S.H., Sutcliffe, A.G., Evaluating the Usability of A Screen Reader with Blind Users, C. Stephanidis, *Universal Access in HCI (Proceedings of HCII'03, Crete, Greece, 1295-1299* Lawrence Erlbaum, Mahwah, USA.
- C36 2003 Evans, D.G., Kurniawan, S.H., King, A., Blenkhorn, P.L., Evaluating the Usability of Joystick Control of a Screen Magnifier with Visually Impaired Users. In C. C. Stephanidis, *Universal Access in HCI (Proceedings of HCII'03. Crete, Greece 24-27 June 2003)*, Mahwah, USA, Lawrence Erlbaum, 201-205
- C35 2003 Evans, G., Kurniawan, S.H., Blenkhorn, P., Document Format and Layout for Blind People: Problems and Possible Solutions., Craddock, McCormack, Rielly & Knops, *Assistive Technology- Shaping the Future (Proceedings of 7th European Conference for the Advancement of Assistive Technology (AAATE)*, Dublin, Ireland, 31 Aug-3 Sept, 456-460
- C34 2003 Evans, G., Kurniawan, S.H., Blenkhorn, P., SpeakOUT: A Tool for People with Modest Print Impairments., Craddock, McCormack, Rielly & Knops, *Assistive Technology- Shaping the Future (Proceedings of 7th European Conference for the Advancement of Assistive Technology (AAATE)*, Dublin, Ireland, 441- 445 PEER REVIEWED

- C33 2003 Kurniawan, S.H., Evans, G., Blenkhorn, P., Approaches to Web Access for Older People, *Presented at the Workshop on Web and Aging, HCII'03*, Crete, Greece, 24-27 June, No pagination PEER REVIEWED
- C32 2003 Zaphiris, P., Kurniawan, S.H., Ellis, R.D., Age related differences and the Depth vs. Breadth trade-off in hierarchical online information systems, *Lecture Notes in Computer Science: Universal Access: Theoretical Perspectives, Practice, and Experience (Proceedings of 7th ERCIM Workshop 'User Interfaces for All', Paris, 23-25 Oct 2002)*, Springer Verlag, Heidelberg, Germany, 2615, 23-42 PEER REVIEWED
- C31 2003 Kurniawan, S.H., Zaphiris, P., Ellis, R.D., Age-Related Differences in Subjective Ratings of Hierarchical Information, *In C. Stephanidis (Ed.) Universal Access in HCI (Proceedings of HCII'03. Crete, Greece 24-27 June 2003)*, Lawrence Erlbaum, Mahwah, USA, 857-861 PEER REVIEWED
- C30 2003 Zaphiris, P., Kurniawan, S.H., Ellis, R.D., Age related differences and the Depth vs. Breadth trade-off in hierarchical online information systems, *Lecture Notes in Computer Science (Proceedings of 7th ERCIM Workshop 'User Interfaces for All')*, Springer Verlag, Heidelberg, Germany, 2615, 303-314 PEER REVIEWED
- C29 2003 Kurniawan, S.H., King, A., Evans, G., Blenkhorn, P., A Usability Evaluation of a Joystick-Operated Full-Screen Magnifier, *Lecture Notes in Computer Science (Proceedings of 7th ERCIM Workshop 'User Interfaces for All')*, Springer Verlag, Heidelberg, Germany, 2615, 375-386 PEER REVIEWED
- C28 2002 Kurniawan, S.H., Zaphiris, P., Ellis, R.D., Comparing older and younger adults traversal time in expandable and non-expandable hierarchical structures, *Proceedings of Human Factors and Ergonomics Society 46th Annual Meeting*, Baltimore, USA, 29 Sept- 4 Oct, 185-188 PEER REVIEWED
- C27 2002 Kurniawan, S.H., Blenkhorn, P., Adopting a Reactive Approach to Develop a Technological solution for Older Adults, *Paper presented at the British HCI Workshop on 'A new research agenda for older adults'*, London, 3rd Sept, No pagination
- C26 2002 Zaphiris, P., Kurniawan, S.H., Quantitative Models for Older Adults' Hierarchical Structure Browsing, *Paper presented at the British HCI Workshop on 'A new research agenda for older adults'*, London, 3rd Sept, No pagination
- C25 2002 Kurniawan, S.H., Sutcliffe, A.G., Mental Models of Blind Users in Windows Environment, *Lecture Notes in Computer Science (the Proceedings of 8th International Conference on Computers Helping People with Special Needs)*, Heidelberg, Germany, Springer Verlag, 2398, 568-574 PEER REVIEWED
- C24 2002 Kurniawan, S.H., How Accessible are Web Information Resources for Students with Disabilities?, *Lecture Notes in Computer Science (the Proceedings of 8th International Conference on Computers Helping People with Special Needs)*, Heidelberg, Germany, Springer Verlag, 2398, 756-757 PEER REVIEWED
- C23 2002 Diggle, T., Kurniawan, S.H., Evans, G., Blenkhorn, P., An Analysis of Layout Errors in Word Processed Documents Produced by Blind People, *Lecture Notes in Computer Science (the Proceedings of 8th International Conference on Computers Helping People with Special Needs)*, Heidelberg, Germany, Springer Verlag, 2398, 2398 PEER REVIEWED
- C22 2002 King, A., Kurniawan, S.H., Evans, G., Blenkhorn, P., The Design and Evaluation of a Joystick Operated Screen Magnifier, *Paper presented at the British HCI Workshop on 'A new research agenda for older adults'*, London, 3rd Sept, No pagination PEER REVIEWED
- C21 2001 Kurniawan, S.H., Ellis, R.D., A Structural Equation Modeling of Internet Bookmark Organization, *Extended Abstract of CHI 2001 Conference on Human Factors in Computing Systems*, Seattle, USA, 31 Mar-5 April, 173-174 Presented as poster PEER REVIEWED
- C20 2001 Zaphiris, P., Kurniawan, S.H., Senior-Centered Design of Health Information Architecture, *Extended Abstract of CHI 2001 Conference on Human Factors in Computing Systems*, Seattle, USA, 31 Mar-5 April, 465-466 Presented as poster PEER REVIEWED
- C19 2001 Kurniawan, S.H., Ellis, R.D., Comparing the Elderly Users' Usability Ratings, Automatic Usability and Automatic Accessibility Evaluations of Elderly-Nominated Web Sites, *Poster presented at the 1st International Conference Human Factors & the Web: Designing and Evaluating for the Web*, Nice, France, 16-19 Mar, No pagination
- C18 2001 Kurniawan, S.H., Zaphiris, P., Investigating Computer Screen and Paper Reading Speed Differences, *Proceedings of WebNet 2001: World Conference on the WWW and Internet [CD-ROM]*, Orlando, USA, 23-27 Oct, No pagination
- C17 2001 Kurniawan, S.H., Zaphiris, P., Reading Online or on Paper: Which is Faster?, *Abridged Proceedings of the 9th International Conference on Human Computer Interaction*, New Orleans, LA, August 5-10, 220-222
- C16 2001 Kurniawan, S.H., Zaphiris, P., Ellis, R.D., Involving Seniors in Designing Information Architecture for the Web, C. Stephanidis, *Universal Access in HCI*, Mahwah, USA, Lawrence Erlbaum, 496-500 PEER REVIEWED
- C15 2001 Zaphiris, P., Kurniawan, S.H., Usability and Accessibility of Aging/Health-Related Websites, *Abridged Proceedings of the 9th International Conference on Human Computer Interaction*, New Orleans, LA, August 5-10, 34-36
- C14 2001 Zaphiris, P., Kurniawan, S.H., User-centered web based information architecture for senior citizens, *Proceedings of Panhellenic Conference with International Participation on HCI*, Dec 7-9, 293-298
- C13 2001 Kurniawan, S.H., Online Information Resources for Students with Disabilities: How Accessible Are They?, *Proceedings of WebNet 2001: World Conference on the WWW and Internet [CD-ROM]*, Orlando, USA, 23-27 Oct, No pagination PEER REVIEWED
- C12 2001 Kurniawan, S.H., & Zaphiris, P., Investigating the Age Effects on Subjective Assessments of Traffic Signs, *Proceedings of the IIE Annual Conference*, Dallas, TX, May 20-23, No pagination

- C11 2001 Kurniawan, S.H., Shih, H.O.M & Goonetilleke, R.S., (2001) Involving Chinese Users in Analyzing the Effects of Languages and Modalities on Computer Icons, *In C. Stephanidis (Ed.), Universal Access in HCI*, Mahwah, USA, Lawrence Erlbaum, 491-495
- C10 2001 Kurniawan, S.H., Zaphiris, P., Usability and Accessibility Comparison of Governmental, Organizational, Educational and Commercial Aging/Health Related Web Sites, *Proceedings of the 45th Annual Meeting of the Human Factors and Ergonomics Society [CD-ROM]*, Minneapolis, MN, USA, October 8-12, 206-210
- C9 2000 Kurniawan, S.H., A rule of thumb of icons' visual distinctiveness, *Proceedings of the Conference on Universal Usability (CUU'00)*, Arlington, VA, USA, 22-23 Nov, 159-160 PEER REVIEWED
- C8 2000 Kurniawan, S.H., Ellis, R.D., Allaire, J.C., The Impact of Age, Web Self-Efficacy, and Web Experience on Bookmark Usage, *Poster presented at the Annual Scientific Meeting of the Gerontological Society of America*, Washington, DC, Nov 17-21, No pagination
- C7 2000 Kurniawan, S.H., Ellis, R.D., Allaire, J.C., The Impact of Age, Web Self-Efficacy, and Web Experience on Bookmark Usage, *Poster presented at the Annual Scientific Meeting of the Gerontological Society of America*, Washington, DC, Nov 17-21, No pagination
- C6 2000 Kurniawan, S.H., Allaire, J.C, Ellis, R.D., Modelling Computer Users' Interest in the World Wide Web across the Adult Life Span: The Role of Age, Education, Ability, and Discontentment, *Proceedings of WebNet 2000: World Conference on the WWW and Internet [CD-ROM]*, San Antonio, USA, 31 Oct-3 Nov, 744-746
- C5 2000 Kurniawan, S.H., Merged Structural Equation Model of Online Retailer's Customer Preference and Stickiness, *Proceedings of WebNet 2000: World Conference on the WWW and Internet [CD-ROM]*, San Antonio, USA, 31 Oct-3 Nov, No pagination PEER REVIEWED
- C4 2000 Kurniawan, S.H., Modeling Online Retailer Customer Preference and Stickiness: A Mediated Structural Equation Model, *Proceedings of PACIS 2000: Fourth Pacific Asia Conference on Information Systems: Electronic Commerce and Web-based Information Systems*, Hong Kong, China, 1-3 June, 238-258 PEER REVIEWED
- C3 1999 Kurniawan, S.H., Allaire, J.C., Ellis, R.D., Defining the Relationships Between Web Ability, Age, and Web Experience Across the Adult Life Span, *Proceedings of Human Factors and Ergonomics Society 43rd Annual Meeting [CD-ROM]*, Houston, TX, 27 Sept-1 Oct, 1387
- C2 1999 Kurniawan, S.H., Shih, H.O.M & Goonetilleke, R.S., Defining the effect of the languages and modalities of computer icons for Chinese users, *Proceedings of Human Factors and Ergonomics Society 43rd Annual Meeting [CD-ROM]*, Houston, TX, 27 Sept-1 Oct, No pagination
- C1 1998 Ellis, R.D., Kurniawan, S.H., A Review and Annotated Bibliography of Research on Computers and Aging, *Presented at the 51st Annual Scientific Meeting of the Gerontological Society of America*, Philadelphia, USA, 18-22 Nov, No pagination

#### Chapters in Books

- B5 2010 Hamasaki, M., Eto, K., Kurniawan, S.H., Hope, T., Takeda, H., Nishimura, T., Online Content Sharing, P. Zaphiris, C.S. Ang, *Social Computing and Virtual Communities*, Boca Raton, FL, USA, CRC Press, Chapter 7, 151-178 PEER REVIEWED **Forwarded**
- B4 2009 Kurniawan, S.H., Age-Related Differences in the Interface Design Process, C. Stephanidis, *The Universal Access Handbook*, Lawrence Erlbaum Associates, Inc., Chapter 8, 1-12 ISBN-10: 0805862803 PEER REVIEWED, INVITED **Forwarded**
- B3 2008 Kurniawan, S.H., Ageing, S. Harper, Y. Yezilada, *Web Accessibility: A Foundation for Research*, Chapter 4, Springer Verlaag, Chapter 4, 47-58 ISBN: 978-1-84800-049-0. INVITED **Forwarded**
- B2 2007 Kurniawan, S.H., Conroy, G.V., Comparing Comprehension Speeds and Accuracy of Online Information in Students with and without Dyslexia, *Advances in Universal Web Design and Evaluation: Research, Trends and Opportunities*, Hershey, PA, USA, IGI Global, 257-270 PEER REVIEWED **Forwarded**
- B1 2005 Zaphiris, P., Kurniawan, S.H., Challenges and Opportunities of Computer-Based Learning for Senior Citizens, *Encyclopedia of International Computer Based Learning*, No pagination PEER REVIEWED

#### Reviews

- R3 2004 Interaction Design-Beyond Human-Computer Interaction by Jennifer Preece, Yvonne Rogers and Helen Sharp, *UAIS Journal* 3, 289
- R2 2003 Review of: Interaction Design-Beyond Human-Computer Interaction by Jennifer Preece, Yvonne Rogers and Helen Sharp, *SigCHI Bulletin*, March/April, No pagination
- R1 2002 Kurniawan, S.H., Zaphiris, P., Review of Usability for the Web: Designing Web Sites that Work by Tom Brinck, Darren Gergle and Scott D. Wood, *SIGCHI Bulletin*, No pagination

#### Other Research

- O2 2008 [Newsletter article] June, N.H. Hassan, M.H.N Md Nasir, S.H. Kurniawan Structuring and Designing Web Information System for Stroke Care: A Malaysian Perspective, *SIGACCESS Newsletter* 91, 9-16 **Forwarded**

O1 2007 [Magazine article] July/Aug Mobile Phone Design for Older Persons, J. Livingston, *Interactions, Special issue on Designing for Seniors*, New York, ACM, 24-25 PEER REVIEWED **Forwarded**

#### UNIVERSITY SERVICE

##### Academic Senate Service

2008 Committee on Affirmative Action and Diversity, Sept 2008-Aug 2010

##### Service to the Division

2009 Invited talk, Biomolecular Engineering Department, 2009

##### Service to the Department

2008 External Faculty Search Committee member, Computer Science Dept., Jan 2008-May 2008

2008 Advising Honors Society on the nanomouse project's user interface, June 2008-Dec 2008

##### Other Service to the Campus

2009 Affiliated Faculty, Digital Arts and New Media, 2009

2008 Affiliated Faculty, Department of Psychology, 2008

2008 Invited talk, Cognitive Psychology colloquium, 2008

2008 Invited talk, CITRIS series

##### Other Outreach

2008 Mentor to women graduate students on MentorNet, 2008-2010

##### Other Service Activities

2007 Advising the Government of Malaysia on the use of Information Technology to aid stroke survivors, 12/03/2007-12/14/2007

#### OUTSIDE PROFESSIONAL ACTIVITIES

##### Public Lecture or Forum Participation

2010 Invited talk, Game Accessibility Day, 6th Games for Health Conference, May 25, 2010 INVITED

2009 Psychology Colloquium, UCSC INVITED

2009 Invited talk, Department of Computer Science, UC San Diego, Aug 21, 2008 INVITED

2008 Invited seminar at IBM Tokyo Research Lab, 22 Aug 2008 INVITED

2008 Invited talk, AIST Odaiba Lab, 26 Aug 2008 INVITED

2008 Invited talk, AIST Tsukuba Lab, 2 Sept 2008 INVITED

2004 Invited talk, Department of Computing Science, University of Glasgow, Glasgow, UK. INVITED

2003 Invited talk, the Centre for HCI Design, City University, London, UK. INVITED

##### Works Presented at Professional Meetings

2005 Invited talk, 6th annual recent Object Oriented trends conference, Bergen, Norway INVITED

2004 Invited closing plenary speaker, 5th annual recent Object Oriented trends conference, Bergen, Norway INVITED

##### Conferences

2010 12th International ACM SIGACCESS Conference on Computers & Accessibility, Orlando, FL, USA, 2010 (Mentor Chair) INVITED

2010 12th International ACM SIGACCESS Conference on Computers & Accessibility, Orlando, FL, USA, 2010 (Doctoral Consortium Faculty Panel) INVITED

2009 5th International Conference on Universal Access in Human-Computer Interaction, San Diego, CA, USA (Program Board member) INVITED

2009 11th International ACM SIGACCESS Conference on Computers & Accessibility (ASSETS), (Treasurer). INVITED

2008 PC member, 11th International Conference on Computers Helping People with Special Needs, Linz, Austria INVITED

2008 PC member, The IASTED International Conference on Assistive Technologies, Baltimore, MD, USA, INVITED

- 2007 9th International ACM SIGACCESS Conference on Computers & Accessibility, Tempe, Arizona, USA (Doctoral Consortium Chair). INVITED
- 2006 PC member, 9th ERCIM (European Research Consortium in Informatics and Mathematics) Workshop 'User Interfaces for All', Bonn, Germany INVITED
- 2004 PC member, ACM DIS (Designing Interactive Systems) Cambridge, MA, USA INVITED
- 2004 PC member, 8th ERCIM (European Research Consortium in Informatics and Mathematics) Workshop 'User Interfaces for All', Vienna, Austria INVITED
- 2004 PC member, 2nd Cambridge Workshop on Universal Access and Assistive Technology, Cambridge, UK, INVITED
- 2003 PC member, 7th ERCIM (European Research Consortium in Informatics and Mathematics) Workshop 'User Interfaces for All', Paris, France INVITED

#### Memberships or Activities in Professional Associations

- 2009 Workshop Chair: Age matters: Bridging the generation gap through technology-mediated interaction. ACM CHI, Boston PEER REVIEWED
- 2008 Special Interest Group on "Vocal interaction", ACM CHI, Florence, Italy
- 2008 ACM Member, 2000-Present
- 2008 ACM SIGACCESS (Special Interest Group in Accessible Computing), 2006-Present
- 2007 Workshop Chair: Striking a chord: vocal interaction in assistive technologies, games, and more, ACM CHI, San Jose, CA, USA PEER REVIEWED
- 2004 Panel: Technology as a means for enhancing the independence and connectivity of older people, ACM CHI, Vienna, Austria
- 2003 Conference chairs of 2 sessions, HCI'03 (International Conference on Human Computer Interaction), Crete, Greece
- 2003 Workshop Chair: HCI'03 (International Conference on Human Computer Interaction), Crete, Greece, PEER REVIEWED
- 2001 Panel: Special Topics of Web Usability. WebNet 2001 Conference, Orlando, FL, USA

#### Editorial Services

- 2010 Guest editor, Special Issue of UAIS - forthcoming: The Intergenerational Context as an Emphasis for Design.
- 2009 Member of the Editorial Board, ACM Transactions on Accessible Computing (TACCESS)
- 2008 Editor, SIGACCESS Newsletter, Jan 2008-June 2010 INVITED
- 2008 Guest Editor, Special Issue of UAIS (Universal Access in the Information Society) 8(2): Vocal Interaction: Beyond Traditional Automatic Speech Recognition.
- 2007 Member of the Editorial Board of Universal Access in the Information Society (UAIS) International Journal
- 2005 Guest Editor, Special Issue of UAIS (Universal Access in the Information Society) 4(1), 2005: Web and Aging: Challenges and Opportunities
- 2004 Member of the Editorial Review Board for AACE/SITE (Association for the Advancement of Computing in Education/Society for Information Technology and Teacher Education) Journals

#### Review/Referee Grants and Publications

- 2009 NSF Panelist, November 2009-November 2009 INVITED
- 2008 NSF proposal reviewer, Jan 2008-Feb 2008 INVITED
- 2008 NSF Panelist, Sept 2008-Sept 2008 INVITED

#### Other Outside Professional Activities

- 2008 UCSC project aims to provide a virtual speech therapist via cell phone. UCSC News. [http://www.ucsc.edu/news\\_events/text.asp?pid=1944](http://www.ucsc.edu/news_events/text.asp?pid=1944), 02/13/2008
- 2008 A Talking Head Lends a Helping Hand. Speech Technology Magazine. <http://www.speechtechmag.com/Articles/PrintArticle.aspx?ArticleID=40950>, 02/14/08
- 2008 TV interview, KION 46 Evening News. <http://www.kion46.com/mediacenter/local.aspx?videoId=10993@video.kcba.com&navCatId=9>, 02/18/08
- 2008 Turning cell phones into tools of medicine. San Jose Mercury News. [http://www.mercurynews.com/lifeandstyleheadlines/ci\\_9390362](http://www.mercurynews.com/lifeandstyleheadlines/ci_9390362), 05/27/2008
- 2008 UCSC Professors Developing Virtual Speech Therapist. City on a Hill Press 42(20), 03/12/08

#### TEACHING



Courses Taught

Quarter	Course Sec #	Units	Enroll	Course Evals	% Evals Retd	% Taught	Comments	Review Status
Winter	CMPE131 - 1 - Human-Computer Interaction	5	5	5	1.00	100		
Winter	CMPE231 - 1 - Human-Computer Interaction	5	7	5	0.71	100		
Winter	PSYC131 - 1 - Human-Computer Interaction	5	6	5	0.83	100		
Winter	PSYC223 - 1 - Human-Computer Interaction	5	3	3	1.00	100		
Spring	CMPE233 - 1 - Human Factors	5	6	6	1.00	100		
Spring	CMPS 297B - 02 - Individual Study	10	1			100		

Student Supervision

Level	Name	Comments
PhD	Mahmud, Murni	2007 The University of Manchester (now Head of Department of Information System, Kulliyyah of Information And Communication Technology, Malaysia) – An investigation of input devices: user ability, performance and behaviour
PhD	Al-Quradaghi, Khalid	2007 The University of Manchester (now faculty member, University of Qatar) – Measuring the importance of e-Learning to help mathematics learning
PhD	Gaspari, Federico	2007 The University of Manchester (now researcher, Italy) – Machine translation and the WWW
PhD	Sa-nga-ngam, Prush	2009 The University of Manchester Assistive Web browser for Older People
PhD	Hassan, Hasni	2006 2008 The University of Manchester Input Device Evaluation with Motor-Impaired Users
PhD	Jomhari, Nazean	2006 2010 The University of Manchester Facilitating the Communication between Malaysian Grandparents and Grandchildren Living Abroad Through CMC

2008-2009

Courses Taught

Quarter	Course Sec #	Units	Enroll	Course Evals	% Evals Retd	% Taught	Comments	Review Status
Fall	CMPE 131 - 01 - HCI	5	17	15	0.88	100		
Fall	PSYC 131 - 01 - HCI	5	16	16	1.00	100		
Fall	DANM 231 - 01 - HCI	5	2	2	1.00	100		
Fall	CMPE 231 - 01 - HCI	5	13	13	1.00	100		
Fall	CMPE 297A - 16 - Individual Study	5	1			100		
Fall	CMPE 297B - 16 - Individual Study	10	1			100		
Fall	CMPS 297A - 02 - Individual Study	5	1			100		
Winter	CMPE 233 - 01 - Human Factors	5	4			100		
Winter	CMPS 297A - 68 - Individual Study	5	2			100		
Winter	CMPE 297B - 51 - Individual Study	10	1			100		
Spring	CMPE 297A - 16 - Individual Study	5	1			100		
Spring	CMPE 080A - 01 - Universal Access	5	183	15	0.57	100		

Student Supervision

Level	Name	Comments
PhD	Shelby, Ryan	2008 2009 Psychology, UCSC Serving in dissertation committee
PhD	Tearse, Brandon	Sept 2008 June 2009 SOE, UCSC

Other Teaching

Guest lecture, CMPE 80A Spring

Guest lecture, CMPS 80J Spring

2009-2010

Courses Taught

Quarter	Course Sec #	Units	Enroll	Course Evals	% Evals Retd	% Taught	Comments	Review Status
Fall	CMPE 080A - 01 - ASSISTIVETECHNOLOGY	5	113	81	0.72	100		
Fall	CMPE 297C - 06 - INDIVIDUAL STUDY	15	1			100		
Fall	CMPE 299B - 02 - THESIS RESEARCH	10	1			100		
Winter	CMPE 131 - 01 - HCI	5	47	32	0.68	34		
Winter	CMPE 231 - 01 - HCI	5	8	7	0.88	75		
Winter	CMPE 299B - 65 - THESIS RESEARCH	10	1			100		
Winter	DANM 231 - 01 - HCI	5	8	7	0.88	25		
Winter	DANM 299 - 09 - THESIS RESEARCH	5	1			100		
Winter	PSYC 131 - 01 - HCI	5	47	32	0.68	66		
Winter	PSYC 199 - 24 - TUTORIAL	5	1			100		
Spring	CMPE 235 - 01 -	5	7	7	1.00	100		
Spring	CMPE 299A - 02 - THESIS RESEARCH	5	1			100		
Spring	CMPE 299B - 16 - THESIS RESEARCH	10	1			100		

Student Supervision

Level	Name	Comments
PhD	Carey, Alexandra	2008 SOE, UCSC
PhD	Arteaga, Sonia	2008 SOE, UCSC
Undergrad	Kudeki, Melissa	07/01/09 08/31/09 University of Illinois at Urbana-Champaign Summer research
Undergrad	Woodworth, Adrienne	07/01/09 08/31/09 St. Lawrence University Summer research
Undergrad	Parker, Shannon	07/01/10 08/31/10 University of Washington Summer research
Undergrad	Mangoba, Leann	07/01/10 08/31/10 EE Department, UCSC Summer research
Masters	Hercules, Jake	06/15/10 09/01/10 San Jose State University Summer research
Undergrad	Morales, Lourdes	07/01/10 08/31/10 Summer research
PhD	Sadowski, Caitlin	Fall 2010 UCSC Co-advise with Cormac Flanagan
PhD	Sali, Serdar	Fall 2010 Serving in dissertation committee
Masters	Nevins, Zeb	Fall2009 Winter2010 Winter 2010 UCSC CS Serving in Masters Project Reading Committee