BIO

Professor Winograd’s focus is on human-computer interaction design and the design of technologies for development. He directs the teaching programs and HCI research in the Stanford Human-Computer Interaction Group, which recently celebrated it's 20th anniversary. He is also a founding faculty member of the Hasso Plattner Institute of Design at Stanford (the "d.school") and on the faculty of the Center on Democracy, Development, and the Rule of Law (CDDRL).

Winograd was a founding member and past president of Computer Professionals for Social Responsibility. He is on a number of journal editorial boards, including Human Computer Interaction, ACM Transactions on Computer Human Interaction, and Informatica. He has advised a number of companies started by his students, including Google. In 2011 he received the ACM SIGCHI Lifetime Research Award.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Computer Science
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Founder, Hasso Plattner Institute of Design, (2006- present)
- Co-director, Liberation Technology Program, (2009- present)

HONORS AND AWARDS

- Founders Award, Computer Professionals for Social Responsibility (1996)
- Rigo Award, SIGDOC (1999)
- Member, ACM CHI Academy (2004)
- Fellow, ACM (2009)
- Lifetime Research Award, ACM SIGCHI (2011)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

PROFESSIONAL EDUCATION

- PhD, MIT (1970)
LINKS

• Home page: http://hci.stanford.edu/winograd

Publications

PUBLICATIONS

• Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder A Randomized Clinical Trial. *JAMA Pediatrics*
  2019; 173 (5): 446–54

• Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder: A Randomized Clinical Trial. *JAMA Pediatrics*
  2019

• Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism *NPJ Digital Medicine*
  2018; 1

• Feasibility Testing of a Wearable Behavioral Aid for Social Learning in Children with Autism *Applied Clinical Informatics*
  2018; 9 (1): 129–40

• Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism. *NPJ digital medicine*
  2018; 1: 32

• Backtracking Events as Indicators of Usability Problems in Creation-Oriented Applications *ACM Transactions on Computer-Human Interaction*
  Akers, D., Jeffries, R., Simpson, M., Winograd, T.
  2012; 19 (2)

• The distance geometry of music *17th Canadian Conference on Computational Geometry*
  ELSEVIER SCIENCE BV.2009: 429–54

• Undo and Erase Events as Indicators of Usability Problems *27th Annual CHI Conference on Human Factors in Computing Systems*
  Akers, D., Simpson, M., Jeffries, R., Winograd, T.
  ASSOC COMPUTING MACHINERY.2009: 659–668

• Improving the Accuracy of Gaze Input for Interaction *Eye Tracking Research and Applications Symposium*
  Kumar, M., Klingner, J., Puranik, R., Winograd, T., Paepcke, A.
  ASSOC COMPUTING MACHINERY.2008: 65–68

• Taskpose: Exploring Fluid Boundaries in an Associative Window Visualization *21st Annual ACM Symposium on User Interface Software and Technology*
  Bernstein, M., Shrager, J., Winograd, T.
  ASSOC COMPUTING MACHINERY.2008: 231–234

• Visual analysis of network flow data with timelines and event plots *4th International Workshop on Computer Security*
  Phan, D., Gerth, J., Lee, M., Paepcke, A., Winograd, T.
  SPRINGER-VERLAG BERLIN.2008: 85–99

• The bodily incorporation of mechanical devices: Ethical and religious issues - (part 2) *Cambridge Quarterly of Healthcare Ethics*
  2007; 16 (3): 268-280
• The bodily incorporation of mechanical devices: Ethical and religious issues (part 1)  CAMBRIDGE QUARTERLY OF HEALTHCARE ETHICS
2007; 16 (2): 229-239

• Eyepatch: Prototyping Camera-based Interaction through Examples  20th Annual ACM Symposium on User Interface Software and Technology
Maynes-Aminzade, D., Winograd, T., Igarashi, T.
ASSOC COMPUTING MACHINERY.2007: 33–42

• Gaze-enhanced Scrolling Techniques  20th Annual ACM Symposium on User Interface Software and Technology
Kumar, M., Winograd, T.
ASSOC COMPUTING MACHINERY.2007: 213–216

• EyePoint: Practical Pointing and Selection Using Gaze and Keyboard  Conference on Human Factors in Computing Systems
Kumar, M., Paepcke, A., Winograd, T.
ASSOC COMPUTING MACHINERY.2007: 421–430

• Shifting viewpoints: Artificial intelligence and human-computer interaction  ARTIFICIAL INTELLIGENCE
Winograd, T.
2006; 170 (18): 1256-1258

• Mediating group dynamics through tabletop interface design  IEEE COMPUTER GRAPHICS AND APPLICATIONS
2006; 26 (5): 65-73

• Designing a new foundation for design  COMMUNICATIONS OF THE ACM
Winograd, T.
2006; 49 (5): 71-73

• TeamSearch: Comparing techniques for co-present collaborative search of digital media  1st IEEE International Workshop on Horizontal Interactive Human-Computer Systems
Morris, M. R., Paepcke, A., Winograd, T.
IEEE COMPUTER SOC.2006: 97–104

• Alternative input devices for efficient navigation of large CT angiography data sets  RADIOLOGY
2005; 234 (2): 391-398

• Flow map layout  IEEE Symposium on Information Visualization (InfoVis 05)
Phan, D., Xiao, L., Yeh, R., Hanrahan, P., Winograd, T.
IEEE COMPUTER SOC.2005: 219–224

• Interactive workspaces  COMPUTER
Johanson, B., Winograd, T., Fox, A.
2003; 36 (4): 99-101

• Efficient web browsing on handheld devices using page and form summarization  ACM TRANSACTIONS ON INFORMATION SYSTEMS
Buyukkokten, O., Kaljuvee, O., Garcia-Molina, H., Paepcke, A., Winograd, T.
2002; 20 (1): 82-115

• Extreme temporal photo browsing  2nd International Workshop on Visual Interfaces to Digital Libraries held at the Joint Conference on Digital Libraries (JCDL)
SPRINGER-VERLAG BERLIN.2002: 81–97

• Architectures for context  HUMAN-COMPUTER INTERACTION
Winograd, T.
2001; 16 (2-4): 401-419

• Integrating information appliances into an interactive workspace  IEEE COMPUTER GRAPHICS AND APPLICATIONS
Fox, A., Johanson, B., Hanrahan, P., Winograd, T.
• Designing the user interface for multimodal speech and pen-based gesture applications: State-of-the-art systems and future research directions  *HUMAN-COMPUTER INTERACTION*

• Interoperability for digital libraries worldwide  *COMMUNICATIONS OF THE ACM*
  Paepcke, A., Chang, C. C., Garcia-Molina, H., Winograd, T.
  1998; 41 (4): 33-43

• The digital library integrated task environment (DLITE) 2nd ACM International Conference on Digital Libraries (DL 97)
  Cousins, S. B., Paepcke, A., Winograd, T., BIER, E. A., Pier, K.
  ASSOC COMPUTING MACHINERY.1997: 142–151

• Interspace and an every-citizen interface to the national information infrastructure  *More Than Screen Deep Workshop - Toward Every-Citizen Interfaces to the Nations Information Infrastructure*
  Winograd, T.
  NATL ACADEMY PRESS.1997: 260–264

• Using distributed objects for digital library interoperability  *COMPUTER*
  Paepcke, A., Cousins, S. B., GARCIAMOLINA, H., Hassan, S. W., Ketchpel, S. P., ROSCHEISEN, M., Winograd, T.
  1996; 29 (5): 61-?

• Grassroots: A system providing a uniform framework for communicating, structuring, sharing information, and organizing people  *5th International World Wide Web Conference (WWW5)*
  Kamiya, K., ROSCHEISEN, M., Winograd, T.
  ELSEVIER SCIENCE BV.1996: 1157–74

• A communication agreement framework for access/action control  *1996 IEEE Symposium on Security and Privacy*
  ROSCHEISEN, M., Winograd, T.
  I E E E, COMPUTER SOC PRESS.1996: 154–163

• FROM PROGRAMMING ENVIRONMENTS TO ENVIRONMENTS FOR DESIGNING  *COMMUNICATIONS OF THE ACM*
  Winograd, T.
  1995; 38 (6): 65-74

• BEYOND BROWSING - SHARED COMMENTS, SOAPS, TRAILS, AND ONLINE COMMUNITIES 3rd International World-Wide Web Conference
  ROSCHEISEN, M., Mogensen, C., Winograd, T.
  ELSEVIER SCIENCE BV.1995: 739–49

• THE NORBERT-WIENER-AWARD FOR SOCIAL AND PROFESSIONAL-RESPONSIBILITY  *CYBERNETICA*
  Winograd, T.
  1994; 37 (3-4): 387-392

• DESIGNING THE DESIGNER  *HUMAN-COMPUTER INTERACTION*
  Winograd, T.
  1994; 9 (1): 128-132

• GROUPWARE - SYSTEMS-DESIGN FROM PERSPECTIVE OF GETTING THINGS DONE  *IEEE SOFTWARE*
  Winograd, T.
  1991; 8 (6): 81-82

• ARE THINKING MACHINES POSSIBLE - ARE WE THEY  *REVISTA DE OCCIDENTE*
  Winograd, T.
  1991: 113-150

• CAN RESEARCH REINVENT THE CORPORATION  *HARVARD BUSINESS REVIEW*
  1991; 69 (2): 164-?
• ON THE CRUELTY OF REALLY TEACHING COMPUTING SCIENCE  COMMUNICATIONS OF THE ACM
  Winograd, T.
  1989; 32 (12): 1412-1413

• EXPERT SYSTEMS - HOW FAR CAN THEY GO .1. AI MAGAZINE
  Davis, R., Winograd, T., DREYFUS, S. E.
  1989; 10 (1): 61-67

• WHERE THE ACTION IS BYTE
  Winograd, T.
  1988; 13 (13): A256-?

• COMPUTER-SYSTEMS AND THE DESIGN OF ORGANIZATIONAL INTERACTION  ACM TRANSACTIONS ON OFFICE INFORMATION SYSTEMS
  Flores, F., Graves, M., HARTFIELD, B., Winograd, T.
  1988; 6 (2): 153-172

• SPECIAL ISSUE ON THE LANGUAGE ACTION PERSPECTIVE - INTRODUCTION  ACM TRANSACTIONS ON OFFICE INFORMATION SYSTEMS
  Winograd, T.
  1988; 6 (2): 83-86

• ARTIFICIAL-INTELLIGENCE - WHERE ARE WE .2. ABACUS-NEW YORK
  1987; 4 (4): 33-48

• ARTIFICIAL-INTELLIGENCE - WHERE ARE WE - EXPERTS WHO EXCHANGE VIEWS ON THE FUTURE OF AI FIND THAT CONSENSUS IS DIFFICULT .1. ABACUS-NEW YORK
  1987; 4 (3): 8-?

• MOVING THE SEMANTIC FULCRUM  LINGUISTICS AND PHILOSOPHY
  Winograd, T.
  1985; 8 (1): 91-104

• COMPUTER SOFTWARE FOR WORKING WITH LANGUAGE  SCIENTIFIC AMERICAN
  Winograd, T.
  1984; 251 (3): 130-?

• WHAT DOES IT MEAN TO UNDERSTAND LANGUAGE  COGNITIVE SCIENCE
  Winograd, T.
  1980; 4 (3): 209-241

• EXTENDED INFERENCE MODES IN REASONING BY COMPUTER-SYSTEMS  ARTIFICIAL INTELLIGENCE
  Winograd, T.
  1980; 13 (1-2): 5-26

• BEYOND PROGRAMMING LANGUAGES  COMMUNICATIONS OF THE ACM
  Winograd, T.
  1979; 22 (7): 391-401

• TOWARDS A PROCEDURAL UNDERSTANDING OF SEMANTICS  REVUE INTERNATIONALE DE PHILOSOPHIE
  Winograd, T.
  1976; 30 (117-): 260-303