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University of Maryland – College Park

Professor, School of Information Studies (2016-Present)
Director, Trace Research & Development Center, University of Maryland (1971-Present)

Raising the Floor - International

President and Co-Founder, Raising the Floor – International, Geneva (2010-Present)

University of Wisconsin-Madison

Professor, Department of Industrial and Systems Engineering – Human Factors (1995-2016)
Professor, Department of Biomedical Engineering (1998-2016)
Associate Professor, Department of Industrial and Systems Engineering – Human Factors (1990-1995)
Assistant Professor, Department of Industrial and Systems Engineering – Human Factors (1986-1990)
Director, Trace Research & Development Center (1971-2016)

Education

B.S., 1972, Electrical Engineering, University of Wisconsin-Madison (Magna Cum Laude)
M.S., 1974, Biomedical Engineering, University of Wisconsin-Madison
Thesis: "Development of a Communications Prosthesis for Non-Vocal Severely Physically Handicapped Individuals"
Ph.D., 1984, Technology in Communication Rehabilitation and Child Development
(an interdisciplinary degree with the departments of Electrical and Computer Engineering, Communicative Disorders, and Educational Psychology), University of Wisconsin-Madison

Research

Focus Areas

Current focus is on design of mainstream information and communication technologies to be more accessible and usable by people facing barriers due to disability, literacy, digital literacy or aging with a particular focus on development of a global public inclusive infrastructure to allow auto-personalization of all ICT information and interfaces in a manner affordable to all.

Past topics include: Web accessibility guidelines and tools, computer software and hardware accessibility, accessible interface techniques and strategies, telecommunications accessibility, accessible emergency communication, assistive technologies for computer access, augmentative communication and writing systems, rehabilitation engineering.

Rehabilitation Engineering Research Centers

Principal Investigator, RERC on Inclusive Interface & Information Technology (8 consecutive 5-year grants since 1983 from the National Institute on Disability Independent Living and Rehabilitation Research, first in DEd and now in ACL, HHS; current grant is \$4.75 million, 2018-2023)

Co-Principal Investigator, RERC on Telecommunications Access (4 consecutive 5-year grants from 1994 to 2014 , partnered with Gallaudet University, funding from the National Institute on Disability and Rehabilitation Research, U.S. Dept. of Education)

Global Public Inclusive Infrastructure (GPII) development and deployment

Principal Investigator on a 20 million dollar 5 year grant to build and test the "auto-personalization from preferences" (APfP) capability of the Global Public Inclusive Infrastructure (GPII). This is a joint project with Raising the Floor, IBM, Microsoft, OCAD, Syracuse, Misericordia, and others.

European Cloud4all and Prosperity4All Large Scale Integrating Projects

Co-Principal Investigator, and Technical/Scientific Coordinator for two Large Scale Integrating Projects funded by the European Union's Seventh Framework Programme (FP7)

- **Cloud4all** (2011-2015) is a 13 million Euro, 4 year project involving 29 different companies, universities and organizations in Europe, the Canada and the US focused on developing the "auto-personalization from preferences" (APfP) capabilities as well as the international federated assistive technology database infrastructure of the GPII.
- **Prosperity4All** (2014-2018) a 12.5 million Euro, 4 year project involving 29 different companies, universities and organizations in Europe, the Canada, the US, Korea, and Qatar focused on developing the infrastructure for facilitating the evolution of the ecosystem to all more vendors, of different sizes (including single developer and consumers and professionals) to be able to explore, develop, test, and market solutions (AT and mainstream product features) for a wider range of users.

Grants and Contracts and Collaborations

Principal investigator on over 100 grants and projects (including the RERC grants), totaling over \$100 million (in 2016 dollars) over 45 years. Activities include research, development, commercial facilitation information summarization, and training (pre-service and in-service). Funding has been received from or collaborative work with the following:

- Technology companies: AOL, Adobe, Amazon, Ameritech, Apple, ARINC, AT&T, Avaya, Battelle, Compaq, Cisco, DEC, ECCS, Ericsson, ES&S, Hewlett Packard, Honeywell, HumanWare, IBM, Information Technology Foundation, Logitech, Macromedia, Microsoft, Motorola, Oracle, Panasonic, Phillips, Qualcomm, SBC, Siemens, Sprint, Storm/Keymat, Sun Microsystems, Telesensory Systems, Unisys, Verizon, and others.
- Government agencies: Federal Communications Commission, General Services Administration, National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR), Administration for Community Living, HHS., National Institute of Standards and Technology (NIST) – U.S. Dept. of Commerce, Rehabilitation Services Administration, National Library Service (Library of Congress), Maryland Library for the Blind and Physically Handicapped, National Science Foundation, National Telecommunications and Information Admin. (NTIA) – U.S. Dept. of Commerce, U.S. Access Board, U.S. Postal Service, National Council on Aging, National Council on Disability, Dane County (Wisconsin), State of Wisconsin, Wisconsin Dept. of Health and Social Services, Wisconsin Dept. of Vocational Rehabilitation, State of South Carolina.

- Other organizations and universities: National Federation of the Blind, American Foundation for the Blind, National Association for the Deaf, Association of Late Deafened Adults, Telecommunication Devices for the Deaf. Dole Foundation, Gallaudet University, Georgia Institute of Technology, University of Florida, University of Illinois-Champaign Urbana, World Institute on Disability.

Milestone Accomplishments

- Released the Unified Listing - and international Federated Database of assistive technologies and access features on mainstream products. (2017)
- Released the DeveloperSpace – in international collaborative site for consumers and developers to make it easier, faster, and less expensive to create new or better access solutions and get them to market internationally. (2017)
- Originated the concept and proposed development of a Global Public Inclusive Infrastructure in 2010, which has now grown into an international effort, with significant funding from the European Commission, United States (IT-RERC) and Canada.
- Co-Chair and Co-Editor of WCAG 1.0 and WCAG 2.0 web accessibility guidelines (1999, 2008).
- Co-created the EZ Access package of cross-disability access features used in the USPS Automated Postal Center (deployed in U.S. post offices across the country), Amtrak ticketing machines, Homeland Security GOES kiosks, IBM airport check-in machines, and information kiosks at the WWII memorial in Wash. DC, Phoenix Sky Harbor Airport, Smithsonian Exhibit, etc.
- Co-developed (and licensed to Microsoft) all but one of the initial disability access features built into Windows (1995) and every version of Windows since.
- Co-developed 3 of the initial 5 disability access features for Macintosh computers (1987).
- Author of the first Web Accessibility Guidelines (1994).
- Authored the first computer accessibility guidelines for the White House Committee on Computer Access (1985). These became the basis for accessibility guidelines at IBM, Microsoft, and Apple.
- Coined the term *Augmentative Communication* – later used to name the field – in a paper at the Gulf Shores Research Conference in 1979, published in 1980.
- Developed the categorization scheme still used for communication aids today.
- Created the first portable, user programmable communication aid in 1974.

Professional Activities

- President and Co-Founder, Raising the Floor-International (2011-Present).
- Amazon Accessibility Advisory Board - (2014-Present)
- Scientific Advisory Board, AEGIS (supported by the 7th Framework Programme on Research and Technological Development of the European Union), 2010-11.
- Co-Chair, Industry-Government Committee on Access to Computers and Information Systems for Disabled Persons, 1983-1988.
- Member, National Academies Institute of Medicine, Committee on Disability in America (2005-06).
- Member, National Task Force on Technology and Disability (2002-04).
- Clinician, Communication Aids and Systems Clinic, Department of Rehabilitation Medicine, University of Wisconsin Hospital and Clinics (1979-1992).
- Field Peer Reviewer - National Science Foundation (NSF); National Institute of Disability and Rehabilitation Research (NIDRR) and Office of Special Education Programs (OSEP), U.S. Department of Education.
- Scientific Review and Evaluation Board, Veterans' Administration Department of Medicine and Surgery, Rehabilitation Engineering Research and Development Service (1979-1991).

Editorial Boards:

- International Journal of Universal Access in the Information Society

- International Journal of Technology and Aging
- Journal of Technology and Human Services (2005-2013)
- Journal of Rehabilitation Research (1983-2000)
- Assistive Technology, RESNA journal (1988-99)

Professional Societies:

- American Institute of Medical and Biological Engineering (AIMBE) – Founding Fellow
- Association for Computing Machinery (ACM)
- Human Factors and Ergonomics Society (HFES) – Fellow; Founding Member and Newsletter Editor of Rehabilitation and Medical Technology SIG through qualification as a TG; service on HFES standards committees.
- Institute of Electrical and Electronic Engineering (IEEE).
- Institute of Industrial Engineers (IIE) – Senior Member.
- InterNational Committee for Information Technology Standards (INCITS)
- International Society for Augmentative and Alternative Communication (ISAAC) – Founding Board of Directors (1983)
- Rehabilitation Engineering and Assistive Technology Society of North American (RESNA) – Fellow, Past President (1993-94), Executive Committee and Board of Directors (1981-1996), Founding Member and Founding Publication Chair

Industry Standards Activities

- Member of the ISO/IEC/JTC1 Task Force to revise the ISO/IEC EN 301 549 standard on accessibility to update procurement, web and mobile technologies, increase coverage of cognitive disabilities.
- Chair, Web Content Accessibility Guidelines Committee of the Web Accessibility Initiative (WAI), World Wide Web Consortium (W3C), since 1998.
- Chair, V2 Working Group, InterNational Committee on Information Technologies Standards (INCITS/ANSI); working group member since 1998.
- Co-Editor of ANSI/HFES 200, Human Factors Engineering of Software User Interfaces (Editor of Part 2).
- Member, RESNA Standards Committee on Cognitive Technologies.
- Member, IEEE-HFES P1583 Technical Group 3, Accessibility/Usability for Voting Machines (2003-04).
- Member, National Information Standards Office (NISO) Digital Talking Book Standards Committee – Working Group 1 – "Type Three Comprehensive Navigation and Manipulation Features," Working Group 2 – "Digital Talking Book Production Guidelines," and Working Group 3 – "File Specification Working Group." (2002)
- Member, Steering Committee of Web Accessibility Initiative (WAI) International Program Office of the World Wide Web Consortium (W3C), since 1998.

Government Advisory Activities

- Testimony at the special convening on the proposal to dissolve the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) and merge with NIH.
- Committee of Experts, FCC MITRE Project for next generation Telecommunication (2015)
- Federal Communication Commission, Emergency Access Advisory Committee (2011-13).
- Invited Participant; European Commission Conference on Innovation for Digital Inclusion (Gdansk 2011); participation in drafting EC Roadmap for Digital Inclusion to indicate priority actions to be taken by the European Commission in the immediate future.

- Invited Participant: European Commission Workshop on Monitoring e-Accessibility in Europe 2010: Assessing Progress in e-Accessibility Technologies and Policies (Brussels 2010).
- U.S. Election Assistance Commission, Accessible Voting Technology Initiative October 13 2009.
- Federal Communication Commission National Broadband Plan Workshop October 20, 2009
- Invited private discussion session with European Union Ministers at European Commission e-Inclusion Ministerial Conference (Vienna, 2008).
- Invited testimony to U.S. Election Assistance Commission, Technical Guidelines Development Committee. (2008).
- U.S. Access Board Telecommunications and Electronic and Information Technology Advisory Committee, (2006-08).
- National Academy of Science, Institute of Medicine, Committee on Disability in America (2005-06).
- Network Reliability and Interoperability Council (NRIC), a federal advisory committee to the Federal Communications Commission (2004-05).
- Invited testimony: "Regulatory impact on IP-enabled services," Presented May 7, 2004 at FCC Internet Policy Working Group Solutions Summit, Washington, DC.
- Invited testimony to Federal Communications Commission at the Dec. 1, 2003 Forum on Voice over Internet Protocol (VoIP).
- FCC Technological Advisory Council (two terms: 1999-2000, 2001-02).
- U.S. Representative, COST219bis and successor COST219ter - European standards projects for telecommunications (1998-2008).
- U.S. Access Board Electronic Information Technology Access Advisory Committee (1998-99).
- U.S. Access Board Telecommunications Access Advisory Committee (1997-98).
- Advisory Committee to White House Digital Divide Initiative (2000).
- National Research Council's planning committee on "Every Citizen Interfaces" (1996-97).
- Chief External Technical Advisor on Access to Electronic Office Equipment: Review of application software accessibility, General Services Administration (1991-93).
- Technical Consultant, U.S. Senate Subcommittee on Handicapped Persons (1985-89).
- National Institute of Handicapped Research, National Science Foundation, Swedish Technical Institute, Swedish Institute for the Handicapped: Planning Session on US-Swedish Research Coordination (1986).
- Technical Meeting of NIHR - White House Committee for Equal Access to Standard Computers and Computer Systems (1985).
- White House/OSERS/Industry Planning Meeting on Computer Access by Disabled Persons (1984).
- Expert panelist for study on "Technology and the Handicapped" by the Office of Technology Assessment, U.S. Senate (1980-82).
- Subcommittee on Science, Research, and Technology (U.S. House of Representatives) and Subcommittee on the Handicapped (U.S. Senate), Information/Planning Workshop: "How Government and Business Can and Should Cooperate in Developing and Applying Technology for Handicapped Individuals" (1980).
- Subcommittee on Science, Research, and Technology (U.S. House of Representatives), Subcommittee on the Handicapped (U.S. Senate), and the Congressional Research Service, Library of Congress: Joint Meeting on "Application of Technology to Handicapped Individuals" (1979).
- Testimony, U.S. House of Representatives Subcommittee on Computers and the Education of Severely Handicapped Individuals (1977).

Honors and Awards

- University of Maryland Certificate of Achievement for exemplary contributions to research excellence at the University of Maryland (2019)

- One of three researchers invited to present their work at the 50th Anniversary of the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) (2018)
- The RESNA Colin McLaurin Distinguished Lectureship Award and Keynote (2018).
- TDI Karen Peltz-Strauss Public Policy Award (2017)
- Oberdorfer Award in Low Vision, presented by the Association for Research in Vision and Ophthalmology (ARVO) and the ARVO Foundation for Eye Research (2013).
- Product Utilization Support and Help (PUSH) Award (2013), presented by the Center on Knowledge Translation for Technology Transfer (KT4TT).
- Fellow Human Factors Society (2012).
- Roland Wagner European Award for Computers Helping People with Special Needs, an award of the Austrian Computer Society presented to the Trace Center (2012).
- ACM Social Impact Award for the Human-Computer Interaction Community (2005).
- Who's Who in America (2004-present).
- Who's Who in American Education (2006-present).
- Who's Who in Science & Engineering (2004-present).
- Compaq Accessibility Program Award for Section 508 efforts (2001).
- Ron Mace Designing for the 21st Century Award (2000).
- National Partnership for Reinventing Government ("Hammer") Award, presented to members of a team led by the Department of Education which devised comprehensive requirements for accessible software design (1999).
- RESNA Mentor Award, presented by the Rehabilitation Engineering and Assistive Technology Society of North America (1998).
- Strache Leadership Award, California State University-Northridge (1998).
- Ameritech and National Council of the Aging "Innovator in Communications Technology" Award (1997).
- Yuri Rubinsky Memorial World Wide Web Award, presented at the 6th Annual International World-Wide-Web Conference (1997).
- Telecommunications Access Advisory Committee, U.S. Access Board, Outstanding Contribution Award (1996-1997).
- Access Award, American Foundation for the Blind (1991).
- Outstanding Faculty Award, McBurney Disability Resource Center, University of Wisconsin-Madison, (1991).
- Ragnar E. Onstad Service to Society Award, College of Engineering, University of Wisconsin-Madison (1989).
- RESNA Distinguished Service Award, Rehabilitation Engineering Society of North America (1978, 1985, 1989).
- Kishpaugh Award, Center for Computers and the Disabled, Dallas, Texas (1987).
- American Speech-Language-Hearing Foundation Outstanding Clinical Achievement Award (1985).
- Wisconsin Speech, Language, and Hearing Association Clinical Achievement Award (1985).
- 2nd Julia M. Watson Lecturer in Rehabilitation Medicine, University of Maine (1984).
- National Council on Communicative Disorders Research Award (1984).
- National Easter Seal Society Certificate of Honor (1984).
- American Speech-Language-Hearing Association Certificate for Significant Contribution (1981).
- American Speech & Hearing Association Certificate of Appreciation (1978).
- Isabelle and Leonard H. Goldenson Award for Outstanding Research in Medicine and Technology (1978).
- United Cerebral Palsy Association Manmade Environment Award (1977).
- Wisconsin Alumni Research Foundation Fellow (1973-74).
- Department of Electrical & Computer Engineering Fellowship (1972-73).

- Polygon Outstanding Senior Student (1972).
- General Motors Scholar (1971).
- Alcoa Honor Scholarship (1970).

Patents Issued

- Jordan, J. B., Kelso, D. P., & Vanderheiden, G. C. (2018). Tactile interface system for manipulation of a touch screen. US Patent 9,952,762.
- Jordan, J. B., Kelso, D. P., & Vanderheiden, G. C. (2018). Tactile Interface. US Patent D808,390.
- Jordan, J.B. & Vanderheiden, G.C. “Method for providing an individual increased accessibility to a touch screen” U.S. Patent No. 9,195,328 (issued November 24, 2015).
- Jordan, J.B. & Vanderheiden, G.C. “Device for providing improved access to the functions of human machine interfaces.” U.S. Patent No. 8,368,664 (issued Feb. 5, 2013).
- Jordan, J.B. & Vanderheiden, G.C. “Device for providing improved access to the functions of human machine interfaces.” U.S. Patent No. 8,115,741 (issued Feb. 14, 2012).
- Pepin, G., Pare, Alain, et al. “Digital audio book cartridge and player with manipulation-facilitating features.” U.S. Patent No. 8,049,991 (issued Nov. 1, 2011).
- Jordan, J.B., Vanderheiden, G.C., & Kelso, D.P. “Keyboard.” U.S. Patent No. D633,506 (issued Mar. 1, 2011).
- Jordan, J.B., Vanderheiden, G.C., & Kelso, D.P. “Keyboard.” U.S. Patent No. D613,746 (issued Apr. 13, 2010).
- Jordan, J.B., Vanderheiden, G.C., & Kelso, D.P. “Keyboard.” U.S. Patent No. D603,865 (issued Nov. 10, 2009).
- Pepin, G., Pare, Alain, et al. “Player.” U.S. Patent No. D582,430 (issued Dec. 9, 2008).
- Pepin, G., Pare, Alain, et al. “Cartridge.” U.S. Patent No. D579,940 (issued Nov. 4, 2008).
- Vanderheiden, G.C., Law, C.M., & Kelso, D.P. “Interface for electronic devices providing improved access for people with disabilities,” U.S. Patent No. 6,624,803 (issued Sept. 23, 2003).
- Vanderheiden, G.C. “Touch screen for the vision-impaired.” U.S. Patent No. 6,384,743 (issued May 7, 2002).
- Vanderheiden, G.C., Law, C.M., & Kelso, D.P. “Control panel for individual with disabilities.” U.S. Patent No. D451,482 (issued Dec. 4, 2001).
- Vanderheiden, G.C. “Flexible access system for touch screen devices.” U.S. Patent No. 6,049,328 (issued Apr. 11, 2000).
- Gunderson, J., Kelso, D.P., & Vanderheiden, G. “Long range optical pointing for video screens,” U.S. Patent No. 4,591,841 (issued May 27, 1986).
- Vanderheiden, G.C., Lamers, D.F., Geisler, C.D., & Volk, A.M. “Auto-monitoring communication devices for handicapped persons,” U.S. Patent No. 3,854,131 (issued Dec. 10, 1974).

Standards Developed

- ANSI/HFES 200 Human Factors Engineering of Software User Interfaces.
- ISO/IEC 24752 Information Technology - Universal Remote Console (5-part standard)
- ANSI/INCITS 389 to 393-2005 Protocol to Facilitate Operation of Information and Electronic Products through Remote and Alternative Interfaces and Intelligent Agents (5 standards)
- GIDEI Standard for General Input Device Emulating Interfaces.
- KEI Standard for Keyboard Emulating Interfaces.
- Serial Control Standard for Electronic Control of Power Wheelchairs (now ISO M3s).
- SET Standard for Electrical Interconnections for Augmentative Communication and Control Aids.
- W3C Web Content Accessibility Guidelines 1.0.
- W3C Web Content Accessibility Guidelines 2.0.

Publications

Books and Chapters

- Vanderheiden, G. C. & Jordan, J. B. (2012). Design for people with functional limitations. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics* (pp. 1409-1441). New York: Wiley.
- Caldwell, B. & Vanderheiden, G. (2011). Access to Web Content by Those with Disabilities and Others Operating under Constrained Conditions. In K. P. L. Vu and R. W. Proctor (Eds.), *Handbook of Human Factors in Web Design* (pp. 371-401) Boca Raton: FL: CRC Press.
- Vanderheiden, G.C. (2009). Accessible and usable design of information and communication technologies. In C. Stephanidis (Ed.), *The Universal Access Handbook* (pp. 3-1 to 3-26) Boca Raton, FL: CRC Press.
- Vanderheiden, G.C. (2009). Standards and guidelines. In C. Stephanidis (Ed.), *The Universal Access Handbook* (pp. 54-1 to 54-21) Boca Raton, FL: CRC Press.
- Vanderheiden, G. C. (2006). Design for people with functional limitations. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics* (pp. 1387-1417). New York: Wiley.
- Vanderheiden, G. (2005). Access to Web content by those operating under constrained conditions. In R. W. Proctor & K. P. L. Vu (Eds.), *Handbook of Human Factors in Web Design* (pp. 267-283). London: Taylor and Francis.
- Vanderheiden, G. (2004). Universal access. In Bainbridge, W.S. (Ed.), *Berkshire Encyclopedia of Human-Computer Interaction* (pp.744-750). Great Barrington, MA: Berkshire.
- Gilman, A., Vanderheiden, G.C., & Zimmermann, G. (2002). State of the science: Internet-based personal services on demand. In *Emerging and Accessible Telecommunications, Information and Healthcare Technologies* (pp. 62-70). Arlington, VA: RESNA Press.
- Vanderheiden, G., Harkins, J., & Barnicle, K. (2002). State of the science: Access to telecommunication technologies. In J.M. Winters, C. Robinson, R. Simpson & G. Vanderheiden (Eds.), *Emerging and Accessible Telecommunications, Information and Healthcare Technologies* (pp. 185-219). Arlington, VA: RESNA Press.
- Vanderheiden, G., & Zimmermann, G. (2002). State of the science: Access to information technologies. In J.M. Winters, C. Robinson, R. Simpson & G. Vanderheiden (Eds.), *Emerging and Accessible Telecommunications, Information and Healthcare Technologies* (pp. 152-184). Arlington, VA: RESNA Press.
- Vanderheiden, G. (2002). Interaction for diverse users. In J. Jacko & A. Sears (Eds.) *Human-Computer Interaction Handbook* (pp. 397-400). Mahwah, NJ: Erlbaum.
- Law, C., & Vanderheiden, G. (2001). Recent legislative development in the USA. In *Bridging the Gap?: Access to Telecommunications for All People* (pp. 168-169).Switzerland: Presses Centrales.
- Law, C., & Vanderheiden, G. (2001). The situation in the USA. In *Bridging the Gap?: Access to Telecommunications for All People* (pp. 104-115).Switzerland: Presses Centrales.
- Stephanidis, C., Akoumianakis, A., Vernardakis, N., Emiliani, P., Vanderheiden, G., Ekberg, J., et al. (2001). Industrial policy issues. In C. Stephanidis (Ed.), *User Interfaces for All: Concepts, Methods, and Tools* (pp. 589-608). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Stephanidis, C., Salvendy, G., Akoumianakis, D., Bevan, N., Brewer, J., Emiliani, P., Galetsas, A., et al. (2001). Toward an information society for all: An international research and development agenda. In C. Stephanidis (Ed.), *User Interfaces for All: Concepts, Methods, and Tools* (pp. 635-663). Mahwah, NJ: Lawrence Erlbaum.
- Vanderheiden, G., & Henry, S. L. (2001). Everyone interfaces. In C. Stephanidis (Ed.), *User Interfaces for All: Concepts, Methods, and Tools* (pp. 115-133). Mahwah, NJ: Lawrence Erlbaum.
- Vanderheiden, G. (2001). Fundamentals and priorities for design of information and telecommunication technologies. In W. F. E. Preiser & E. Ostroff (Eds.), *Universal Design Handbook* (pp. 65.3-65.15). New York: McGraw Hill.
- Vanderheiden, G. (2001). Telecommunications—Accessibility and future directions. In C. Nicolle & J. Abascal (Eds.), *Inclusive Design Guidelines for HCI* (pp. 239-257). London: Taylor & Francis.

- Vanderheiden, G.C. (2001). Development of generic accessibility/ability usability design guidelines for electronic and information technology products. In *Universal Access in HCI: Towards an Information Society for All* (pp. 635-639). Mahwah, NJ: Lawrence Erlbaum.
- Romich, B., Vanderheiden, G., & Hill, K. (2000). Augmentative and alternative communication. In J. Bronzino (Ed.), *The Biomedical Engineering Handbook* (Vol. II, pp. 144-1-144-8). Boca Raton, FL: CRC Press LLC.
- Fagerberg, G., Kung, A., Wichert, R., Tazari, M.-R., Jean-Bart, Br., Bauer, G., Zimmermann, G., Furfari, F., Potorti, F., Chessa, S., Hellenschmidt, M., Gorman, J., Alexandersson, J., Bund, J., Carrasco, E., Epelde, G., Klíma, M., Urdaneta, E., Vanderheiden, G., & Zinnikus, I. (Nov. 2010). Platforms for AAL
- Bower, R., Kaull, J., Sheikh, N., & Vanderheiden, G. (Eds.). (1998). *Trace Resource Book: Assistive Technologies for Communication, Control & Computer Access (1998-99 Edition)*. Madison, WI: Trace R&D Center, University of Wisconsin-Madison.
- Law, C., & Vanderheiden, G.C. (1998). Accessibility of information/transaction machines (ITMs): results of a research project by the Trace R&D Center for the US Access Board. In *Improving the Quality of Life for the European Citizen: Technology for Inclusive Design and Equality* (pp. 46-51). Amsterdam: IOS Press.
- Vanderheiden, G.C. (1998). Universal remote console communication protocol (URCC). In *Improving the Quality of Life for the European Citizen: Technology for Inclusive Design and Equality* (pp. 368-373). Amsterdam: IOS Press.
- Vanderheiden, G. C. (1998). Presente y futuro de la accesibilidad a Internet. In J. A. Gonzalez & A. Arruabarrena (Eds.), *Novatica Iformativa y Discapacidades* (p. 136). Spain.
- Vanderheiden, G.C., & Law, C. (1998). EZ access strategies for cross-disability access to kiosks, telephones and VCRs. In *Improving the Quality of life for the European Citizen: Technology for Inclusive Design and Equality* (pp. xxxi-xl). Amsterdam: IOS Press.
- Vanderheiden, G. (1997). Design for people with functional limitations due to disability, aging, or circumstances. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics* (pp. 2010-2052). New York: John Wiley & Sons.
- Vanderheiden, G. (1996). Development of a multisensory visual interface to computers for blind users. In *Human Factors Perspectives on Human-Computer Interactions: Selections from Human Factors and Ergonomics Society Annual Meeting Proceedings, 1983-1994*. Santa Monica, California: Human Factors and Ergonomics Society.
- Vanderheiden, G. C. (1996). Computer access and use by people with disabilities. In J. C. Galvin & M. J. Scherer (Eds.), *Evaluating, Selecting, and Using Appropriate Assistive Technology* (pp. 237-276). Gaithersburg, MD: Aspen Publishers, Inc.
- Romich, B., & Vanderheiden, G. (1995). Augmentative communication/control/computer access. In J. Bronzino (Ed.), *The Biomedical Engineering Handbook*, (pp. 2110-2117). Boca Raton, FL: CRC Press, Inc.
- Borden, P., Lubich, J., & Vanderheiden, G. (Eds.) (1995). *Trace Resource Book: Assistive Technologies for Communication, Control & Computer Access (1996-97 Edition)*. Madison, WI: Trace R&D Center, University of Wisconsin-Madison.
- Borden, P., Fatherly, S., Ford, K., & Vanderheiden, G. (Eds.) (1993). *Trace resource book: assistive technologies for communication, control & computer access (1993-94 Edition)*. Madison, WI: Trace R&D Center, University of Wisconsin-Madison.
- Vanderheiden, G. (1992). A brief look at technology and mental retardation in the 21st century. In L. Rowitz (Ed.), *Mental retardation in the year 2000* (pp. 268-278). New York: Springer-Verlag, Inc.
- Berliss, J., Borden, P., & Vanderheiden, G. (Eds.) (1989). *Trace resource book: assistive technologies for communication, control & computer access (1989-90 Edition)*. Madison, WI: Trace R&D Center, University of Wisconsin-Madison.
- Borden, P., & Vanderheiden, G. (Eds.) (1988). *ResourceBook4: Update to Books 1, 2, and 3 (Rehab/Education Technology ResourceBook Series: Communication, control, and computer access*

- for disabled and elderly individuals). Madison, WI: Trace R&D Center, University of Wisconsin-Madison.
- Brandenburg, S., & Vanderheiden, G. (1987). Communication board design and vocabulary selection. In L. E. Bernstein (Ed.), *The vocally impaired: Vol. I, Clinical research and practice*. Academic Press.
- Brandenburg, S., & Vanderheiden, G. (Eds.) (1987). *ResourceBook 1: Communication aids. (Rehab/Education Technology ResourceBook Series: Communication, control, and computer access for disabled and elderly individuals)*. San Diego: College-Hill Press.
- Brandenburg, S., & Vanderheiden, G. (Eds.) (1987). *ResourceBook 2: Switches and environmental controls (Rehab/Education Technology ResourceBook Series: Communication, control, and computer access for disabled and elderly individuals)*. San Diego: College-Hill Press.
- Brandenburg, S., & Vanderheiden, G. (Eds.) (1987). *ResourceBook 3: Software and hardware (Rehab/Education Technology ResourceBook Series: Communication, control, and computer access for disabled and elderly individuals)*. San Diego: College-Hill Press.
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Regulatory Filings (selected)

- (8 in 2018)
- (5 in 2017)
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- Vogler, C., Williams, N. & Vanderheiden G. (2011). *In the matter of application of new and emerging technologies for video relay service use.* CG Docket 10-51: Federal Communications Commission.
- Vanderheiden, G. & Vogler, C. (2011). *In the matter of implementation of Sec 716 and 717 of the Communications Act of 1934, as Enacted by the Twenty-First Century Communications and Video Accessibility Act of 2010.* CG Docket 10-213: Federal Communications Commission.
- Vanderheiden, G. & Vogler, C. (2011). *In the matter of implementation of Sec 716 and 717 of the Communications Act of 1934, as Enacted by the Twenty-First Century Communications and Video Accessibility Act of 2010.* CG Docket 10-213: Federal Communications Commission.
- Vanderheiden, G. (2011). *Comments on accessibility of next-generation 9-1-1.* DOJ-CRT-2010-0006: Regulations.gov.
- Vanderheiden, G. (2011). *In the matter of implementation of the Twenty-first Century Communications and Video Accessibility Act of 2010 Section 105, Relay Services for Deaf-Blind Individuals.* CG Docket 10-210: Federal Communications Commission.
- Vanderheiden, G. (2011). *In the matter of framework for next generation 911 deployment.* PS Docket 10-255: Federal Communications Commission.
- Vanderheiden, G. (2011). *Comments on nondiscrimination on the basis of disability by state and local government entities and public accommodation; equipment and furniture.* Docket DOJ-CRT-2010-0001: Regulations.gov.

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- Vanderheiden, G. (2011). *In the matter of implementation of the Twenty-first Century Communications and Video Accessibility Act of 2010 Section 105, Relay Services for Deaf-Blind Individuals*. CG Docket 10-210: Federal Communications Commission.
- Vanderheiden, G., Harkins, J. & King, C. (2010). *In the matter of accessible mobile phone options for people who are blind, deaf-blind, or have low vision*. CG Docket 10-145, DA 10-1324: Federal Communications Commission.
- Vanderheiden, G. & Hill, E. (2010). *In the matter of broadband accessibility for people with disabilities – Workshop II Barriers, Opportunities, and Policy Recommendations*. GN Docket 09-191, WC Docket 07-52, FCC 09-93: Federal Communications Commission.
- Vanderheiden, G. & Harkins, J. (2010). *In the matter of advanced communication provisions of the Twenty-first Century Communications and Video Accessibility Act of 2010 with Disabilities – Workshop II*. CG Docket 10-213: Federal Communications Commission.
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- Vanderheiden, G. (2010). *In the Matter of Refresh of the Section 255 and Section 508*. Docket ATBCB-2010-0001: Regulations.gov.
- Harkins, J. & Vanderheiden, G. (2010). *Examination of the future media and information needs of communities in a digital age*. GN Docket No 10-25: Federal Communications Commission.
- Harkins, J., Kozma-Spytek, L., Williams, N., Hellstrom, G., Vanderheiden, G., Ladner, R., & Strauss, K. (2010). *Ex parte comments re: Public safety issues related to broadband communication to and from people with disabilities*. GN Docket Nos. 09-47, 09-51, 09-137: Federal Communications Commission.
- Vanderheiden, G. (2009). *In the Matter of Broadband Accessibility for People with Disabilities - Workshop II, Barriers, Opportunities, and Policy Recommendations*, GN Docket Nos. 09-47, 09-51 and 09-137: Federal Communications Commission.
- Harkins, J.E., Vanderheiden, G., & Strauss, K.P. (2009). *In the Matter of Broadband Accessibility for People with Disabilities - Workshop II, Barriers, Opportunities, and Policy Recommendations*, GN Docket Nos. 09-47, 09-51 and 09-137: Federal Communications Commission.
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- Vanderheiden, G. (2005). *Comments to Election Assistance Commission on the Voluntary Voting System Guidelines (VVSG)*. Retrieved 05/23, 2006, from: <http://guidelines.kennesaw.edu/vvsg>
- Harkins, J., Peltz Strauss, K., & Vanderheiden, G.C. (2004). *In the Matter of Review of the Emergency Alert System*.
- Harkins, J., & Vanderheiden, G.C. (2004). *In the Matters of IP-enabled Services and E9-1-1 requirements for IP-enabled service providers*. WC Docket Nos. 04-36 and 05-196: Federal Communications Commission.
- Vanderheiden, G.C. (1998). *In the matter of implementation of Section 255 of the Telecommunications Act of 1996*. WT Docket No. 96-198: Federal Communications Commission. Retrieved June 1, 2006, from: <http://www.fcc.gov/Bureaus/Wireless/Comments/fcc98055/210084-1.pdf>

Reports and Other Key Publications (selected)

(stopped listing in 2013)

- Vanderheiden, G. (2013). Lessons learned in technology transfer from Dr. Gregg Vanderheiden and the Trace Research & Development Center. *FOCUS Technical Brief (37)*. Austin, TX: SEDL, Disability Research to Practice Program.
- Johnston, M. V., Vanderheiden, G. C., Farkas, M., Rogers, E. S., Summers, J. A., & Westbrook, J. D., for the NCDDR Task Force on Standards of Evidence and Methods. (2009). *The challenge of evidence in disability and rehabilitation research and practice: A position paper*. Austin, TX: SEDL.
- Committee on Disability in America (2007). *Assistive and mainstream technologies for people with disabilities*. In *The future of disability in America* (pp. 7-1 - 7-31). Washington, DC: The National Academies Press. [Gregg Vanderheiden, a member of the Committee on Disability in America, did the first draft and chaired the subcommittee for this chapter of the report.]
- National Council on Disability. (2006). *Over the horizon: Potential impact of emerging trends in information and communication technology on disability policy and practice*. Washington, DC: Author. (Written by Gregg Vanderheiden pursuant to a contract with NCD.)
- Harkins, J., Peltz Strauss, K., & Vanderheiden, G. (2006). *Research and policy recommendations from the State of the Science Conference on Accessible Emergency Notification and Communication*. Rehabilitation Engineering Research Center on Telecommunications Access; Gallaudet University; University of Wisconsin-Madison.
- National Task Force on Technology and Disability (2004). *Within our reach: findings and recommendations of the National Task Force on Technology and Disability*. Flint, MI: The Disability Network. (Significant contributions and drafts by Gregg Vanderheiden.)
- Vanderheiden, G.C. (2003). Access to voice-over-internet protocol (“VoIP”). In *The future of internet phone calling: Regulatory imperatives to protect the promise of VoIP for industry and consumers*. Washington, D.C: New Millennium Research Council.
- Vanderheiden, G.C., & Chisholm, W.A. (1998). Central reference document - Version 8; Unified Web Site Accessibility Guidelines (advanced draft copy). Retrieved May 31, 2006, from: <http://www.w3.org/WAI/GL/central.htm>
- Computer Science and Telecommunications Board (1997). Requirements for effective every-citizen interfaces. In *More than screen deep: Toward every citizen interfaces to the nation’s information infrastructure* (pp. 21-70). Washington, DC: National Research Council, National Academy of Science. (Significant contributions and drafts by Gregg Vanderheiden.)
- Computer Science and Telecommunications Board (1997). Input/output technologies: Current status and research needs. In *More than screen deep: Toward every citizen interfaces to the nation’s information infrastructure* (pp. 71-120). Washington, DC: National Research Council, National Academy of Science. (Significant contributions and drafts by Gregg Vanderheiden.)
- Computer Science and Telecommunications Board (1997). Nomadicity, disability access, and the every-citizen interface. In *More than screen deep: Toward every citizen interfaces to the nation’s information infrastructure* (pp. 297-306). Washington, DC: National Research Council, National Academy of Science. (Significant contributions and drafts by Gregg Vanderheiden.)
- Connell, B., Jones, M., Mace, R., Mueller, J., Mullick, A., Ostroff, E., et al. (1997). The principles of universal design: version 2.0. Retrieved May 31, 2006 from: http://www.design.ncsu.edu/cud/newweb/about_ud/udprinciples.htm
- Vanderheiden, G.C., & Harkins, J.E. (1997). Performance guidelines. In *Access to telecommunications equipment and customer premises equipment by individuals with disabilities: Telecommunication Access Advisory Committee (TAAC) final report* (pp. 19-24). Washington, D.C.: U.S. Architectural and Transportation Barriers Compliance Board.
- Vanderheiden, G. C. (1996). *ECI requirements/desiderata*. National Research Council, Committee on Every Citizen Interface to the NII. Washington, DC.
- Vanderheiden, G. (January 1995). Design of HTML (Mosaic) Pages to Increase their Accessibility to Users with Disabilities; Strategies for Today and Tomorrow, Version 1.0. Trace Center, University of Wisconsin –Madison. http://trace.wisc.edu/archive/html_guidelines/version1.html.

- Vanderheiden, G.C. (1994). Application software design guidelines: increasing the accessibility of application software to people with disabilities. Retrieved June 02, 2006, from: http://trace.wisc.edu/docs/software_guidelines/software.htm
- Vanderheiden, G.C., & Vanderheiden, K.R. (1991). Accessibility design guide I: guidelines for the design of consumer products to increase their accessibility to persons with disabilities or who are aging. Madison, WI: Trace R&D Center.
- Vanderheiden, G. (1984). White Paper: Access to Standard Computers, Software, and Information Systems by Persons with Disabilities (invited). Industry/Government Committee on Computer Access, White House, Feb 1984.

Selected Presentations, Tutorials, Workshops

(stopped listing in 2012)

- Invited Presentation to American Speech & Hearing Association, Augmentative and Alternative Communication Division 11th Annual Conference (Jan. 2011, Orlando).
- Invited Presentation at 23rd Annual Colloquium on Aging (Oct. 2011, Madison, WI).
- Invited Presentation at Digital Inclusion Conference (Oct. 2011, Gdansk, Poland).
- Invited Presentation at Federal Communications Commission Workshop on Economic, Technological and Policy Issues Associated with the Transition from the Public Switched Telephone Network to an IP Network (Dec. 2011, Wash. DC).
- Keynote speech at International ÆGIS Conference "Roadmap for Building a Global Public Inclusive Infrastructure" (2010, 7-8 October). Seville Spain.
- Invited Presentation to European Commission's Expert Meeting on Assistive Technologies and e-Accessibility. (2009, March 25). Brussels, Belgium.
- Invited Presentation to e-Inclusion Ministerial Conference. (2008, December 1). Vienna, Austria.
- Keynote speech at the 8th Asia-Pacific Conference on Computer Human Interaction. (2008, July 7). Seoul, Korea.
- Invited Presentation to Joint ITU and G3ict Forum 2008 on The Convention on the Rights of Persons with Disabilities: Challenges and Opportunities for ICT Standards. (2008, April 21). Geneva, Switzerland.
- Invited Keynote Address: "The Future of Accessibility," IDEAS 2006. (2006, Nov. 14). Washington, D.C.
- Invited Panelist: "Ergonomics Standards for High Technology: Issues and Challenges," Human Factors & Ergonomics Society Annual Meeting. (2006, Oct. 17). San Francisco, California.
- Invited Workshop: "WCAG Priority 1 Checkpoints," RESNA 29th International Conference. (2006, June 25). Atlanta, Georgia.
- Workshop: "Recent Advances in Control of Mainstream Technology from Assistive Technology," RESNA 29th International Conference. (2006, June 24). Atlanta, Georgia.
- Invited Panelist: "Consumer Electronics for an Aging Generation," International Consumer Electronics Show. (2006, Jan. 6). Las Vegas, Nevada.
- Invited Panelist: "The Changing Face of Telecommunications," 20th International SHHH Convention. (2005, July 1). Washington, D.C.
- Invited Presentation: "Changing the Rules: Natural Accessibility for Voting Systems and Personal Pluggable Interfaces for Everything," Usability Professionals Assoc. Annual Conference. (2005, June 29). Montreal, Quebec.
- Invited Panelist: "25 Years of Rehabilitation Engineering - Looking Forward to New Horizons," at RESNA 28th International Conference. (2005, June 26). Atlanta, Georgia.
- Workshop: "International Roadmap for Accessible Mainstream Telecommunications: Research, Policy, and Practice," at RESNA 28th International Conference. (2005, June 25). Atlanta, Georgia.
- Invited Keynote Address: "Interface Sockets and Virtual Assistive Technology: Are They Key Elements of the Future?" Vision 2005 Conference. (2005, April 6). London, UK.

Invited Panelist: "Managing Complexity," International Consumer Electronics Show. (2005, Jan. 7). Las Vegas, Nevada.

Workshop: "Server-Based Technologies (use of network-based servers to provide AT amplification, network transcoding, assistance services and virtual AT)," at COST219ter Conference on Network-Based Services for People with Disabilities. (2004, Oct. 20). Copenhagen, Denmark.

Invited Panelist: "Ballot Design: Opportunities for November and Beyond," Voting Technology: Innovations for Today and Tomorrow, MIT. (2004, Oct. 2). Boston, Mass.

Invited Plenary Address: "How Technological Advances are Redefining Assistive Technology, Accessibility and Disability," 7th International Conference of Human Services Information Technology Applications. (2004, Aug. 26). Hong Kong, PRC.

Invited Keynote Address: "How Advancing Technologies Can Redefine Disability -- If We Can Imagine," State of the Science Conference: Center for Disability & Socioeconomic Policy Studies, Howard University. (2004, Mar. 12). Washington, D.C.

Invited Plenary Address: "What's Next for E&IT Accessibility?," at The Accessibility Forum. (2003, Sept. 16). Washington, D.C.

Presentation: "Catching Up To The Future: Charting Your Own Courses," at the 15th Biennial TDI International Conference. (2003, July 14). Las Vegas, Nevada.

Presentation: "Universal Interface Sockets and Virtual AT as Access Approaches for People with Severe, Extreme, and Multiple Disabilities," at the 10th Annual Conference on Human-Computer Interaction. (2003, June 26). Heraklion, Crete.

Full-Day Tutorial: "Designing Accessible Interfaces," at the 10th Annual Conference on Human-Computer Interaction. (2003, June 22). Heraklion, Crete.

Invited Presentation: "Demonstration of a Prototype Cross-Disability Accessible Voting Tablet," Help America Vote Act (HAVA) Webcast (2003, May 13).

Invited Full-Day Tutorial: "Designing Flexible, Accessible Interfaces That Are More Usable by Everyone," at CHI 2003, ACM Conference on Computer-Human Interaction. (2003, Apr. 6). Fort Lauderdale, Florida.

Invited Keynote Address: "We will have the technology to reinvent AAC in unimaginable ways. Will we know what to do with it?," at the USSAAC Biennial Conference. (2003, Mar. 20). Los Angeles, California.

Presentations: "A Natural Accessibility Interface for Voting Systems" and "Future Technology Developments and Domotics," 4th International Conference on Gerontechnology. (2002, Nov. 9-12). Miami, Florida.

Presentation, "When Virtual Assistive Technologies Become Universal Design and Marry with Rehabilitative Human Augmentation," National Summit on Technology and Disability. (2002, Oct. 8). Providence, Rhode Island.

Concurrent Session: "A New Model for Thinking about Universal Design and Assistive Technology" at RESNA 25th International Conference on Technology and Disability (2002, June 30). Minneapolis, Minn.

Full-Day Tutorial: "Flexible, Accessible Interfaces More Usable by Everyone" at CHI 2002, ACM Conference on Computer-Human Interaction (2002, Apr. 22). Minneapolis, Minn.

Keynote Address "New Century - New Technologies – New Opportunities – New Questions" at the CSUN 2002 International Conference on Technology and Persons with Disabilities. (2002, Mar. 20). Los Angeles, Calif.

Keynote (closing plenary address) at the annual ACM-CHI Conference. (2001, April 5). Seattle, Washington.