References

ADLER, P.S. and WINOGRAD, T. (1992). The usability challenge. In: P.S. Adler and T.A. Winograd (eds.), Usability: turning techniques into tools. Oxford: Oxford University Press.

ANDRIOLE, S. and ADELMAN, L. (1995). *Cognitive Systems Engineering for User-Computer Interface Design, Prototyping and Evaluation*. Hillsdale, NJ: Lawrence Erlbaum Associates.

APPLE (1987). Human Interface Guidelines: the Apple desktop interface. CA: Addison-Wesley.

APPLE (1989). *HyperCard Stack Design Guidelines*. Wokingham: Addison-Wesley.

BAILEY, R.W. (1996). *Human Performance Engineering: designing high quality, professional user interfaces for computer products, applications and systems*. 3rd Edition. New Jersey: Prentice-Hall.

BAILEY, R.W., ALLAN, R.W. and RAIELLO, P. (1992). Usability testing vs. heuristic evaluation: a head-to-head comparison. *Proceedings of the Human Factors Society 36th Annual Meeting, 1992, **1**, 409-413*. Human Factors Society.

BARCLAY, P. (1986). Human Factors in Design: dialogue design standards. ICL Technical Publication R50213/01. Letchworth: ICL Printing Services.

BARNARD, P.J. (1987). Cognitive resources and the learning of human-computer dialogues. In: J.M. Carroll (ed.), Interfacing Thought: cognitive aspects of human-computer interaction. London: MIT Press.

BASTIEN, J.M.C. and SCAPIN, D.L. (1992). A validation of ergonomic criteria for the evaluation of human-computer interfaces. *International Journal of Human-Computer Interaction, 1992, **4(2)**, 183-196*.

BASTIEN, J.M.C. and SCAPIN, D.L. (1995). Evaluating a user interface with ergonomic criteria. *International Journal of Human-Computer Interaction, 1995, **7(2)**, 105-121*.

BASTIEN, J.M.C., SCAPIN, D.L. and LEULIER, C. (1996). Looking for usability problems with the ergonomic criteria and with the ISO 9241-10 dialogue principles. In: M.J. Tauber, V. Bellotti, R. Jeffries, J.D. Mackinlay and J. Nielsen (eds.), *Common Ground: CHI '96 conference proceedings*. Conference Companion (Interactive Posters). ACM conference on human factors in computing systems, Vancouver, April 1996. Association For Computing Machinery.

BASTIEN, J.M.C., SCAPIN, D.L. and LEULIER, C. (1999). The ergonomic criteria and the ISO/DIS 9241-10 dialogue principles: a pilot comparison in an evaluation task. *Interacting with Computers, 1999, **11(3)**, 299-322*.

BEVAN, N., KIRAKOWSKI, J. and MAISSEL, J. (1991). What is usability ? In: H.J. Bullinger (ed.), *Human Aspects in Computing: design and use of interactive systems and work with terminals*. Proceedings of the 4th international conference on human-computer interaction (INTERACT), Stuttgart, September 1991. Vol. 1. (Series: Advances in Human Factors / Ergonomics, No. 18A). Amsterdam: Elsevier Science Publishers B.V.

BIAS, R. (1991). Walkthroughs: efficient collaborative testing. IEEE Software, September 1991, **8(5)**, 94-95.

BIAS, R.G. and MAYHEW, D.J. (eds.) (1994). *Cost-justifying Usability*. Boston: Academic Press.

BODART, F. and VANDERDONCKT, J.M. (1993). Expressing guidelines into an ergonomical style guide for highly interactive applications. In: S. Ashlund, K. Mullet, A. Henderson, E. Hollnagel, and T. White (eds.), *INTERCHI '93: bridges between worlds*. Adjunct Proceedings. INTERACT '93 and CHI '93 Conference on human factors in computing systems. Amsterdam: IOS Press.

BODART, F. and VANDERDONCKT, J.M. (1995). Using ergonomic rules for evaluation by linguistic ergonomic criteria. In: Y. Anzai, K. Ogawa and H. Mori (eds.), *Symbiosis of Human and Artifact: human and social aspects of human-computer interaction*. Proceedings of the 6th international conference on human-computer interaction (HCI International '95), Tokyo, July 1995. Vol. 2. (Series: Advances in Human Factors / Ergonomics, No. 20B). Amsterdam: Elsevier Science Publishers B.V.

BRODBECK, F.C., ZAPF, D., PRÜMPER, J. and FRESE, M. (1993). Error handling in office work with computers: a field study. *Journal of Occupational and Organizational Psychology, 1993, **66**, 303-317*.

BROWN, C. M. (1988). *Human-Computer Interface Design Guidelines*. New Jersey: Ablex Publishing Corporation.

BROWN, C. M., BROWN, D. B., BURKLEO, H. V., MANGELSDORF, J. E., OLSEN, R. A., and PERKINS, R. D. (1983). *Human Factors Engineering Standards for Information Processing Systems* (LMSC-D877141). Sunnyvale, CA: Lockheed Missiles and Space Company. [Cited in Smith & Mosier 1986.]

CARD, S.K., MORAN, T.P. and NEWELL, A. (1980). The keystroke-level model for user performance time with interactive systems. *Communications of the ACM, **23**, 396-410*.

CARD, S.K., MORAN, T.P. and NEWELL, A. (1983). *The Psychology of Human-Computer Interaction*. London: Lawrence Erlbaum Associates.

CARROLL, J.M. (1991). Introduction: the Kittle House manifesto. In: J.M. Carroll (ed.), *Designing Interaction: psychology at the human-computer interface*. Cambridge: Cambridge University Press.

CARROLL, J.M. (1997). Human-computer interaction: psychology as a science of design. *International Journal of Human-Computer Studies, 1997, **46**, 501-522*.

CHRISTIE, B., SCANE, R. and COLLYER, J. (1995). Evaluation of human-computer interaction at the user interface to advanced IT systems. In: J.R. Wilson and E.N. Corlett (eds.), *Evaluation of Human Work: a practical ergonomics methodology*. 2nd Edition. London: Taylor & Francis.

CLEGG, C., WARR, P., GREEN, T., MONK, A., KEMP, N., ALLISON, G. and LANSDALE, M. (1988). *People and Computers: how to evaluate your company's new technology*. Chichester: Ellis Horwood Ltd.

COCKTON, G. and LAVERY, D. (1999). A framework for usability problem extraction. In: M.A. Sasse and C. Johnson (eds.), *Human-Computer Interaction - INTERACT '99*. Proceedings of the 7th IFIP TC.13 international conference on human-computer interaction, Edinburgh, August-September 1999. Amsterdam: IOS Press.

COLE, I., LANSDALE, M. and CHRISTIE, B. (1985). Dialogue design guidelines. In: B. Christie (ed.), *Human Factors of Information Technology in the Office*. Chichester: John Wiley & Sons.

CONNELL, I.W. (1991). *An Observational Study of Three Public Access User Interfaces: London Underground and British Rail ticket vending machines*. Design Evaluation Project for MSc in User Interface Design, London Guildhall University. Completed October 1991. Unpublished manuscript.

CONNELL, I.W. (1993). *Simulation of a Public Access Hypermedia System*. Design Solution Project for MSc in User Interface Design, London Guildhall University, September 1993. Unpublished manuscript.

CONNELL, I.W. (1998). Error analysis of ticket vending machines: comparing analytic and empirical data. *Ergonomics, 1998, **41(7)**, 927-961*.

CONNELL, I.W. and HAMMOND, N.V. (1999). Comparing usability evaluation principles with heuristics: problem instances versus problem types. In: M.A. Sasse and C. Johnson (eds.), *Human-Computer Interaction - INTERACT '99*. Proceedings of the 7th IFIP TC.13 international conference on human-computer interaction, Edinburgh, August-September 1999. Amsterdam: IOS Press.

COX, K. and WALKER, D. (1998). *User Interface Design.* 2nd Edition. New York: Prentice-Hall.

CUOMO, D.L. and BOWEN, C.D. (1992). Stages of user activity model as a basis for user-system interface evaluations. *Proceedings of the Human Factors Society 36th Annual Meeting, 1992, **2**, 1254-1258*. Human Factors Society.

CUOMO, D.L. and BOWEN, C.D. (1994). Understanding usability issues addressed by three user-system interface evaluation techniques. *Interacting with Computers, 1994, **6(1)**, 86-108*.

DAVIS, G.D. and SWEZEY, R.W. (1983). Human factors guidelines in computer graphics: a case study. *International Journal of Man-machine Studies, 1983, **18**, 113-133*.

De SOUZA, F.L., LONG, J.B. and BEVAN, N. (1990). Types of error and difficulty in using human-factors guidelines: the case of interface menu design. In: E.J. Lovesey (ed.), *Contemporary Ergonomics 1990*. Proceedings of the Ergonomics Society 1990 Annual Conference. London: Taylor & Francis.

DEC (1986). *SUS - A "quick and dirty" Usability Scale*. Created by John Brooke, User Information Architecture A/D Group, Digital Equipment Co. Ltd. Reading: Digital Equipment Co.

DENLEY, I., HEDMAN, L.R., HILL, B., WHITEFIELD, A., PAPADOPOLOUS, K., CLARKE, A. and HINE, N. (1993). Usability principles for service design. In: P.F. Byerley, P.J. Barnard and J. May (eds.), *Computers, Communication and Usability: design issues, research and methods for integrated services*. Amsterdam: Elsevier Science Publishers B.V.

DESURVIRE, H.W. (1994). Faster, cheaper !! Are usability inspection methods as effective as empirical testing ? In: J. Nielsen and R.L. Mack (eds.), *Usability Inspection Methods*. New York: John Wiley & Sons.

DESURVIRE, H.W. and THOMAS, J.C. (1993). Enhancing the performance of interface evaluators using non-empirical usability evaluation methods. *Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting, 1993, **2**, 1132-1136*. Human Factors and Ergonomics Society.

DESURVIRE, H.W., KONDZIELA, J.M. and ATWOOD, M.E. (1992). What is gained and lost when using evaluation methods other than empirical testing. In: A. Monk, D. Diaper and M.D. Harrison (eds.), *People and Computers VII.* Proceedings of HCI '92, York, September 1992. British Computer Society Conference Series 5. Cambridge: Cambridge University Press.

DESURVIRE, H.W., LAWRENCE, D. and ATWOOD,.M. (1991). Empiricism versus judgement: comparing user interface evaluation methods on a new telephone-based interface. *ACM SIGCHI Bulletin, October 1991*, **23(4)**, 58-59.

DIX, A., FINLAY, J., ABOWD, G. and BEALE, R. (1998). *Human-Computer Interaction*. 2nd Edition. London: Prentice-Hall.

DUMAS, J., SORCE, J. and VIRZI, R.A. (1995). Expert reviews: how many experts is enough ? *Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting, 1995, 228-232*.

DUMAS, J.S. and REDISH, J.C. (1993). *A Practical Guide to Usability Testing*. Norwood, NJ: Ablex.

DUTT, A., JOHNSON, H. and JOHNSON, P. (1994). Evaluating evaluation methods. In: G. Cockton, S.W. Draper and G.R.S. Weir (eds.), *People and Computers IX*. Proceedings of HCI '94, Glasgow, August 1994. Cambridge: Cambridge University Press.

ENGEL, S. E., and GRANDA, R. E. (1975. *Guidelines for Man/Display Interfaces* (Technical Report TR 00.2720). Poughkeepsie, NY: IBM. [Cited in Smith & Mosier 1986.]

FOLEY, J. D., and VAN DAM, A. (1982). *Fundamentals of Interactive Computer Graphics*. Reading, MA: Addison-Wesley.

GALITZ, W. O. (1985). *Handbook of Screen Format Design.* 2nd Edition. Amsterdam: North-Holland.

GARDINER, M.M. and CHRISTIE, B. (1987) (eds.), *Applying Cognitive Psychology to User Interface Design*. Chichester: John Wiley & Sons.

GARZOTTO, F., MAIMETTI, L. and PAOLINI, P. (1995). Hypermedia design, analysis and evaluation issues. *Communications of the ACM, August 1995, **38(8)**, 74-86*.

GEORGE, H. (1995). *The Good Usability Handbook.* London: McGraw-Hill.

GERHARDT-POWALS, J. (1996). Cognitive engineering principles for enhancing human-computer performance. *International Journal of Human-Computer Interaction, 1996, **8(2)**, 189-211*.

GODDARD (1992). *Human-Computer Interface Guidelines*. Prepared for the Data Systems Technology Division, Software and Automated Systems Branch / Code 522, Goddard Space Flight Center.

GOULD, J.D. (1988). How to design usable systems. In: M. Helander (ed.), *Handbook of Human-Computer Interaction*. Amsterdam: Elsevier Science Publishers B.V. (North-Holland).

GOULD, J.D. and LEWIS, C.L. (1893). Designing for usability - key principles and what designers think. In: A. Janda (ed.), *Human Factors in Computing Systems*. ACM SIGCHI and Human Factors Society conference proceedings, Boston, December 1983. (Special issue of the SIGCHI Bulletin). New York: ACM Press.

GOULD, J.D. and LEWIS, C.L. (1985). Designing for usability: key principles and what designers think. *Communications of the ACM, 1985, **28(3)**, 300-311*.

GRAMMENOS, D., AKOUMIANAKIS, C. and STEPHANIDIS, C. (2000). Integrated support for working with guidelines: the Sherlock guideline management system. *Interacting with Computers, 2000, **12**, 281-311*.

GRAY, W.D. and SALZMAN, M.C. (1998). Damaged merchandise ? A review of experiments that compare usability evaluation methods. *Human-Computer Interaction, 1998, **13(3)**, 203-261*.

HAMMOND, N. and McKENDREE, J. (1998). Interactive Psychology: the PsyCLE workbook. Oxford: Blackwell Publishers.

HAMMOND, N., GARDINER, M.M., CHRISTIE, B. and MARSHALL, C. (1987). The role of cognitive psychology in user-interface design. In: M.M. Gardiner and B. Christie (eds.), *Applying Cognitive Psychology to User Interface Design*. Chichester: John Wiley & Sons.

HAMMOND, N., HINTON, G., BARNARD, P., MacLEAN, A., LONG, J. and WHITEFIELD, A. (1984). Evaluating the interface of a document processor: a comparison of expert judgement and user observation. In: B. Shackel (ed.) (1985), *Human-Computer Interaction-INTERACT '84*. Proceedings of the first IFIP conference on human-computer interaction. Amsterdam: Elsevier Science Publishers B.V. (North-Holland).

HASSENZAHL, M. (2000). Prioritising usability problems: data-driven and judgement-driven severity estimates. *Behaviour and Information Technology, 2000, **19(1)**, 29-42*.

HCI RN (HCI Resource Network) Jobs Index. http://www.hcirn.com/jobs/index.html

HECKEL, P. (1984). *The Elements of Friendly Software Design*. Warner Books.

HENNINGER, S. (2000). A methodology and tools for applying context-specific usability guidelines to interface design. *Interacting with Computers, 2000, **12**, 225-243*.

HERTZUM, M. and JACOBSEN, N.E. (1999). The evaluator effect during first-time use of the cognitive walkthrough technique. In: H.-J. Bullinger and J. Ziegler (eds.), *Human-Computer Interaction: ergonomics and user interfaces*. Proceedings of the HCI International '99 conference, Vol. 1, 1063-1067. London: Lawrence Erlbaum.

HERTZUM, M. and JACOBSEN, N.E. (2001). The evaluator effect: a chilling fact about usability evaluation methods. *International Journal of Human-Computer Interaction, 2001 **13(4)**, 421-443*.

HIX, D. and HARTSON, H.R. (1993). *Developing User Interfaces: ensuring usability through product & process*. Chichester: John Wiley & Sons.

HOLTZBLATT, K. and JONES, S. (1993). Contextual Inquiry: a participatory technique for system design. In: D. Schuler and A. Namioka (eds.), *Participatory Design: principles and practices*. Hillsdale, NJ: Lawrence Erlbaum Associates.

HOWELL, D.C. (1997). *Statistical Methods for Psychology*. 4th Edition. Belmont, California: Duxbury Press.

IANNELLA, R. (1994). Heuristic user interface evaluation: three case studies of dialog design. In: S. Howard and Y.K. Leung (eds.), Proceedings of OZCHI '94, the CHISIG annual conference on human-computer interaction, Melbourne, November-December 1994.

IANNELLA, R. (1995). hyperSAM: a management tool for large user interface guideline sets. *SIGCHI Bulletin, April 1995, **27(2)**, 42-45*.

IBM (1992). *Object-Oriented Interface Design: IBM Common User Access guidelines*. IBM.

ISO 9241-10 (1996). *Ergonomic Requirements for Office Work with Visual Display Terminals (VDTs)*. Part 10: Dialogue principles. EN ISO 9241-10: 1996. Brussels: European Committee for Standardisation (CEN).

ISO 9241-11 (1998). *Ergonomic Requirements for Office Work with Visual Display Terminals (VDTs)*. Part 11: Guidance on usability. EN ISO 9241-11: 1998. Brussels: European Committee for Standardisation (CEN).

JACOBSEN, N.E. and JOHN, B.E. (2000). *Two Case Studies in Using Cognitive Walkthrough for Interface Evaluation* (CMU Technical Report No. CMU-CS-00-132). Pittsburgh, PA: Carnegie Mellon University.

JACOBSEN, N.E., HERTZUM, M. and JOHN, B.E. (1998a). The evaluator effect in usability studies: problem detection and severity judgements. *Proceedings of the Human Factors and Ergonomics Society 42nd Annual Meeting, 1998, 1336--1340*. Human Factors and Ergonomics Society.

JACOBSEN, N.E., HERTZUM, M. and JOHN, B.E. (1998b). The evaluator effect in usability tests. In: C-M. Karat and A. Lund (eds.), *Making the Impossible Possible: CHI 98 conference proceedings*. Summary (Late-Breaking Results). ACM conference on human factors in computing systems, Los Angeles, April 1998. New York: ACM Press.

JEFFRIES, R. and DESURVIRE, H. (1992). Usability testing vs. heuristic evaluation: was there a contest ? *SIGCHI Bulletin, October 1992, **24(4)**, 39-41*.

JEFFRIES, R., MILLER, J.R., WHARTON, C. and UYEDA, K.M. (1991). User interface evaluation in the real world: a comparison of four techniques. In: S.P. Robertson, G.M. Olson and J.S. Olson (eds.), *Reaching Through Technology: CHI '91 conference proceedings*. ACM conference on human factors in computing systems, New Orleans, April-May 1991. New York: Addison-Wesley.

JOHN, B.E. and MARKS, S.J. (1997). Tracking the effectiveness of usability evaluation methods. *Behaviour & Information Technology, 1997, **16(4/5)**, 188-202*.

JOHN, B.E. and MASHYNA, M.M. (1997). Evaluating a multimedia authoring tool. *Journal of the American Society for Information Science, 1997, **48(11)**, 1004-1022*.

JOHNSON, P. and NEMETZ, F. (1998). Towards principles for the design and evaluation of multimedia systems. In: H. Johnson, L. Nigay and C. Roast (eds.), *People and Computers XIII*. Proceedings of HCI '98. London: Springer.

JORDAN, P.W. (1998). *An Introduction to Usability*. London: Taylor & Francis.

KARAT, C-M. (1994). A comparison of user interface evaluation methods. In: J. Nielsen and R.L. Mack (eds.), *Usability Inspection Methods*. New York: John Wiley & Sons.

KARAT, C-M., CAMPBELL, R. and FIEGEL, T. (1992). Comparison of empirical testing and walkthrough methods in user interface evaluation. In: P. Bauersfeld, J. Bennett and G. Lynch (eds.), *CHI '92 Conference Proceedings: striking a balance*. ACM conference on human factors in computing systems, Monterey, California, May 1992. Reading, MA: Addison-Wesley.

KARAT, J. (1997). User-centered software evaluation methodologies. In: M. Helander, T.K. Landauer and P. Prabhu (eds.), *Handbook of Human-Computer Interaction*. 2nd Edition. Amsterdam: Elsevier Science B.V.

KELLEY, T. and ALLENDER L. (1995). Why choose ? A process approach to usability testing. In: Y. Anzai, K. Ogawa and H. Mori (eds.), *Symbiosis of Human and Artifact: human and social aspects of human-computer interaction*. Proceedings of the 6th international conference on human-computer interaction (HCI International '95), Tokyo, July 1995. Vol. 2. (Series: Advances in Human Factors / Ergonomics, No. 20B). Amsterdam: Elsevier Science Publishers B.V.

KIERAS, D. (1997). A guide to GOMS model usability evaluation using NGOMSL. In: M. Helander, T.K. Landauer and P. Prabhu (eds.), *Handbook of Human-Computer Interaction*. 2nd Edition. Amsterdam: Elsevier Science B.V.

KIERAS, D. and POLSON, P.G. (1985). An approach to the formal analysis of user complexity. *International Journal of Man-Machine Studies, 1985, **22(4)**, 365-394*.

LANDAUER, T.K. (1991). Let's get real: a position paper on the role of cognitive psychology in the design of humanly useful and usable systems. In: J. M. Carroll (ed.), *Designing Interaction: psychology at the human-computer interface*. Cambridge: Cambridge University Press.

LANDAUER, T.K. (1995). *The Trouble With Computers: usefulness, usability and productivity*. Cambridge, MA: MIT Press (Bradford Books).

LEE, W.O. (1998). Analysis of problems found in user testing using an approximate model of user action. In: H. Johnson, L. Nigay and C. Roast (eds.), *People and Computers XIII*. Proceedings of HCI '98. London: Springer.

LEWIS, C., POLSON, P., WHARTON, C. and RIEMAN, J. (1990). Testing a walkthrough methodology for theory-based design of walk-up-and-use interfaces. In: J.C. Chew and J. Whiteside (eds.), *Empowering People: CHI '90 conference proceedings*. ACM conference on human factors in computing systems, Seattle, April 1990. (Special issue of the SIGCHI Bulletin). Seattle: Addison-Wesley.

LEWIS, J.R. (1993). Problem discovery in usability studies: a model based on the binomial probability formula. *Proceedings of the Fifth International Conference on Human-computer Interaction, 1993, **1**, 666-671*.

LEWIS, J.R. (1994). Sample sizes for usability studies: additional considerations. *Human Factors, 1994, **36(2)**, 368-378*.

LIM, K.H., BENBASAT, I. and TODD, P.A. (1996). An experimental investigation of the interactive effects of interface style, instructions, and task familiarity on user performance. *ACM Transactions on Computer-Human Interaction, March 1996, **3(1)**, 1-37*.

LONG, J. (1989). Cognitive Ergonomics and Human-Computer Interaction. In: J. Long & A. Whitefield (eds.), *Cognitive Ergonomics and Human-Computer Interaction.* Cambridge: Cambridge University Press.

LONG, J. and WHITEFIELD, A. (1989). *Cognitive Ergonomics and Human-Computer Interaction*. Cambridge: Cambridge University Press.

MACK, R. and MONTANIZ, F. (1994). Observing, predicting and analyzing usability problems. In: J. Nielsen and R.L. Mack (eds.), *Usability Inspection Methods*. New York: John Wiley & Sons.

MACK, R.L. and NIELSEN, J. (1994). Executive summary. In: J. Nielsen and R.L. Mack (eds.), *Usability Inspection Methods*. New York: John Wiley & Sons.

MACLEOD, M. (1992). *An Introduction to Usability Evaluation*. National Physical Laboratory report DITC 102/92, commissioned by the Information Technology Division of the Department of Trade and Industry in support of *Usability Now!*, the DTI technology transfer programme in human-computer interaction. Teddington, Middsx: National Physical Laboratory.

MAGUIRE, M. (1982). An evaluation of published recommendations on the design of man-computer dialogues. *International Journal of Man-Machine Studies, 1982, **16**, 237-261*.

MARSHALL, C., NELSON, C. and GARDINER, M.M. (1987). Design guidelines. In: M.M. Gardiner and B. Christie (eds.), *Applying Cognitive Psychology to User Interface Design*. Chichester: John Wiley & Sons.

MAYHEW, D.J. (1992). *Principles and Guidelines in Software User Interface Design*. New Jersey: Prentice-Hall.

MICROSOFT (1995). *The Windows Interface Guidelines for Software Design*. Microsoft Press.

MIL-STD-1472C, Revised (1983). *Military Standard: Human Engineering Design Criteria for Military System, Equipment and Facilities*. Washington, DC: Department of Defence. [Cited in Smith & Mosier 1986.]

MILLER, J.R. and JEFFRIES, R. (1992). Usability evaluation: science of trade-offs. *IEEE Software, September 1992, **9(5)**, 97-102*.

MOLICH, R. (1994). Preventing user interface disasters. *Behaviour & Information Technology, 1994, **13(1&2)**, 154-159*.

MOLICH, R. and NIELSEN, J. (1990). Improving a human-computer dialogue. *Communications of the ACM, March 1990, **33(3)**, 338-348*.

MOLICH, R., BEVAN, N., CURSON, I., BUTLER, S., KINDLUND, E., MILLER, D. and KIRAKOWSKI, J. (1998). Comparative evaluation of usability tests. *Proceedings of the Usability Professionals Association 1998 Conference, 189-200*. UPA.

MOLICH, R., THOMSEN, A.D., KARYUKINA, B., SCHMIDT, L., EDE, M., van OEL, W. and ARCURI, M. (1999). Comparative evaluation of usability tests. In: *CHI '99 Conference Proceedings: the CHI is the limit*. Extended Abstracts (Panels). ACM conference on human factors in computing systems, Pittsburg, May 1999. New York: ACM Press.

MONK, A.F. (1998). Experiments are for small questions, not large ones like "What usability evaluation method should I use ?" Commentaries on "Damaged Merchandise ?". *Human-Computer Interaction, **13**, 263-323*.

MONK, A.F., WRIGHT, P., HABER, J. and DAVENPORT, L. (1993). *Improving Your Human-Computer Interface: a practical technique*. (British Computer Society Practitioner Series). London: Prentice-Hall.

MOSIER, J.N. and SMITH, S.L. (1986). Application of guidelines for designing user interface software. *Behaviour and Information Technology, 1986, **5(1)**, 39-46*.

MULLER, M.J., McCLARD, A., BELL, B., DOOLEY, S., MEISKEY, L., MESKILL, J.A., SPARKS, R. and TELLAM, D. (1995). Validating an extension to participatory heuristic evaluation: quality of work and quality of work life. In: I. Katz, R. Mack and L. Marks (eds.), *Human Factors in Computing Systems: mosaic of creativity*. CHI '95 Conference Companion (Interactive Posters). ACM conference on human factors in computing systems, Denver, May 1995. New York: Association for Computing Machinery.

MURPHY, E.D. and MITCHELL, C.M. (1986). Cognitive attributes: implications for display design in supervisory control systems. *International Journal of Human-Computer Studies, 1986, **25**, 411-438.*

NICKERSON, R.S. and LANDAUER, T.K. (1997). Human-computer interaction: background and issues. In: M. Helander, T.K. Landauer and P. Prabhu (eds.), *Handbook of Human-Computer Interaction*. 2nd Edition. Amsterdam: Elsevier Science B.V.

NIELSEN, J. (1989). Usability engineering at a discount. In: G. Salvendy and M.J. Smith (eds.), *Designing and Using Human-Computer Interfaces and Knowledge-Based Systems*. Amsterdam: Elsevier Science Publishers B.V.

NIELSEN, J. (1990a). Big paybacks from 'discount' usability engineering. *IEEE Software, May 1990, **7(3)**, 107-108*.

NIELSEN, J. (1990b). *Hypertext and Hypermedia*. San Diego: Academic Press.

NIELSEN, J. (1990c). Paper versus computer implementations as mockup scenarios for heuristic evaluation. In: D. Diaper, G. Cockton, D. Gilmore and B. Shackel (eds.), *Human-Computer Interaction-INTERACT '90*. Proceedings of the third IFIP international conference on human-computer interaction, Cambridge, UK, August 1990. Amsterdam: Elsevier Science Publishers B.V. (North-Holland).

NIELSEN, J. (1990d). Three medium-sized hypertexts on CD-ROM. *ACM SIGIR Forum, **24(1)**, 2-10*.

NIELSEN, J. (1990e). Traditional dialogue design applied to modern user interfaces. *Communications of the ACM, October 1990, **33(10)**, 109-118*.

NIELSEN, J. (1992). Finding usability problems through heuristic evaluation. In: P. Bauersfeld, J. Bennett and G. Lynch (eds.), *CHI '92 Conference Proceedings: striking a balance.* ACM conference on human factors in computing systems, Monterey, California, May 1992. Reading, MA: Addison-Wesley.

NIELSEN, J. (1993). *Usability Engineering*. Boston: Academic Press.

NIELSEN, J. (1994a). Enhancing the explanatory power of usability heuristics. In: B. Adelson, S. Dumais and J. Olson (eds.), *CHI '94 Conference Proceedings: celebrating interdependence.* ACM conference on human factors in computing systems, Boston, April 1994. New York: ACM Press.

NIELSEN, J. (1994b). Estimating the number of subjects needed for a thinking aloud test. *International Journal of Human-Computer Studies, 1994, **41**, 385-397*.

NIELSEN, J. (1994c). Guerrilla HCI: using discount usability engineering to penetrate the intimidation barrier. In: R.G. Bias and D.J. Mayhew (eds.), *Cost-justifying Usability*. Boston: Academic Press.

NIELSEN, J. (1994d). Heuristic evaluation. In: J. Nielsen and R.L. Mack (eds.), *Usability Inspection Methods*. New York: John Wiley & Sons.

NIELSEN, J. (1994e). Usability inspection methods. In: C. Plaisant (ed.), *CHI '94 Conference Proceedings: celebrating interdependence*. Conference Companion (Tutorials). ACM conference on human factors in computing systems, Boston, April 1994. New York: ACM Press.

NIELSEN, J. (1994f). Usability laboratories. *Behaviour & Information Technology, 1994, **13(1&2)**, 3-8*.

NIELSEN, J. and LANDAUER, T.K. (1993). A mathematical model of the finding of usability problems. In: S. Ashlund, A. Henderson, E. Hollnagel, K. Mullet and T. White (eds.), *Human Factors in Computing Systems: INTERCHI '93*. Proceedings of the INTERCHI '93 Conference on human factors in computing systems, Amsterdam, April 1993. Amsterdam: IOS Press.

NIELSEN, J. and MOLICH, R. (1990). Heuristic evaluation of user interfaces. In: J.C. Chew and J. Whiteside (eds.), *Empowering People: CHI '90 conference proceedings*. ACM conference on human factors in computing systems, Seattle, April 1990. (Special issue of the SIGCHI Bulletin). Seattle: Addison-Wesley.

NIELSEN, J. and PHILLIPS, V.L. (1993). Estimating the relative usability of two interfaces: heuristic, formal and empirical methods compared. In: S. Ashlund, A. Henderson, E. Hollnagel, K. Mullet and T. White (eds.), *Human Factors in Computing Systems: INTERCHI '93*. Proceedings of the INTERCHI '93 Conference on human factors in computing systems, Amsterdam, April 1993. Amsterdam: IOS Press.

NIELSEN, J., BUSH, R.M., DAYTON, T., MOND, N.E., MULLER, M.J. and ROOT, R.W. (1992). Teaching experienced developers to design graphical user interfaces. In: P. Bauersfeld, J. Bennett and G. Lynch (eds.), *CHI '92 Conference Proceedings: striking a balance.* ACM conference on human factors in computing systems, Monterey, California, May 1992. Reading, MA: Addison-Wesley.

NORMAN, D.A. (1981). Categorisation of action slips. *Psychological Review, 1981, **88(1)**, 1-15*.

NORMAN, D.A. (1983). Design rules based on analyses of human error. *Communications of the ACM, April 1983, **26(4)**, 254-258*.

NORMAN, D.A. (1986). Cognitive engineering. In: D.A. Norman and S.W. Draper (eds.), *User Centred System Design*. Hillsdale, NJ: Lawrence Erlbaum Associates.

NORMAN, D.A. (1988). *The Psychology of Everyday Things*. New York: Basic Books.

NORMAN, D.A. (1998). *The Invisible Computer*. Cambridge, MA: MIT Press.

PAYNE, S.J. and GREEN T.R.G. (1986). Task-Action Grammars: a model of the mental representations of task languages. *Human-Computer interaction, **2**, 93-133*.

POLSON, P.G., LEWIS, C., RIEMAN, J. and WHARTON, C. (1992). Cognitive walkthroughs: a method for theory-based evaluation of user interfaces. *International Journal of Man-Machine Studies, 1992, **36**, 741-773*.

POTTER, S.S., COOK, R.I., WOODS, D.D. and McDONALD, J.S. (1990). The role of a human factors guidelines in designing usable systems: a case study of operating room equipment. *Proceedings of the Human Factors Society 34th Annual Meeting, 1990, **1**, 392-395*. Human Factors Society.

PREECE, J., ROGERS, Y., SHARP, H., BENYON, D., HOLLAND, S. and CAREY, T. (1994). *Human-Computer Interaction*. Wokingham: Addison-Wesley.

PRÜMPER, J., ZAPF, D., BRODBECK, F.C. and FRESE, M. (1992). Some surprising differences between novice and expert errors in computerized office work. *Behaviour & Information Technology, 1992, **11(6)**, 319-328*.

RASMUSSEN, J. (1982). Human Errors. A taxonomy for describing human malfunction in industrial installations. *Journal of Occupational Accidents, 1982, **4**, 311-333*.

RASMUSSEN, J. (1986). *Information Processing and Human-machine Interaction: an approach to cognitive engineering*. North-Holland Series in System Science and Engineering, (AP Sage, ed.), Vol. 12. Amsterdam: North-Holland.

RASMUSSEN, J. (1987). The definition of human error and a taxonomy for technical system design. In: J. Rasmussen, K. Duncan & J. Leplat (eds.), *New Technology and Human Error*. New York: John Wiley & Sons.

RATNER, J.A., GROSE, E., and FORSYTHE, C. (1996). Traditional vs. Web Style Guides: how do they differ ? *Proceedings of the Human Factors and Ergonomics Society 40th Annual Meeting, 1996, 365-369*. Human Factors and Ergonomics Society.

RAVDEN, S.J. and JOHNSON, G.I. (1989). *Evaluating the Usability of Human-Computer Interfaces: a practical manual*. Chichester: Ellis Horwood.

REASON, J. (1987a). A preliminary classification of mistakes. In: J. Rasmussen, K. Duncan and J. Leplat (eds.), *New Technology and Human Error*. New York: John Wiley & Sons.

REASON, J. (1987b). Generic Error-Modelling System (GEMS): a cognitive framework for locating common human error forms. In: J. Rasmussen, K. Duncan and J. Leplat (eds.), *New Technology and Human Error*. New York: John Wiley & Sons.

REASON, J. (1990). *Human Error*. Cambridge: Cambridge University Press.

ROWLEY, J.R. and SLACK, F. (1998). *Designing Public Access Systems*. Aldershot: Gower.

RUBENSTEIN, R. and HERSH, H. (1984). *The Human Factor: designing computer systems for people*. Burlington, Mass.: Digital Press.

RUBIN, J. (1994). *Handbook of Usability Testing: how to plan, design, and conduct effective tests*. New York: John Wiley & Sons.

SALMINEN, S. and TALLBERG, T. (1996). Human errors in fatal and serious occupational accidents in Finland. *Ergonomics, 1996, **39(7)**, 980-988*.

SCAPIN, D.L. (1987). Guide ergonomique de conception des interfaces homme-machine. *Rapport de Recherche INRIA No. 77*. [Cited in Scapin 1990.]

SCAPIN, D.L. (1990). Organizing human factors knowledge for the evaluation and design of interfaces. *International Journal of Human-Computer Interaction, 1990, **2(3)**, 203-229*.

SCAPIN, D.L. and BASTIEN, J.M.C. (1997). Ergonomic criteria for evaluating the ergonomic quality of interactive systems. *Behaviour & Information Technology, 1997, **16(4/5)**, 220-231*.

SCHULER, D. and NAMIOKA, A. (1993). Preface. In: D. Schuler and A. Namioka (eds.), *Participatory Design: principles and practices*. Hillsdale, NJ: Lawrence Erlbaum Associates.

SEARS, A. (1997). Heuristic walkthroughs: finding the problems without the noise. *International Journal of Human-Computer Interaction, 1997, **9(3)**, 213-234*.

SEARS, A. and HESS, D.J. (1999). Cognitive walkthroughs: understanding the effect of task-description detail on evaluator performance. *International Journal of Human-Computer Interaction, 1999, **11(3)**, 185-200*.

SHACKEL, B. (1984). The concept of usability. In: J. Bennett, D. Case, J. Sandelin and M. Smith (eds.), *Visual Display Terminals: usability issues and health concerns*. New Jersey: Prentice-Hall.

SHNEIDERMAN, B. (1987). *Designing the User Interface: strategies for effective human-computer interaction*. Wokingham: Addison-Wesley.

SHNEIDERMAN, B. (1998). *Designing the User Interface: strategies for effective human-computer interaction*. 3rd edition. Reading, MA: Addison-Wesley.

SMITH, S.L. (1986). Standards versus guidelines for designing user interface software. *Behaviour & Information Technology, 1986, **5(1)**, 47-61*.

SMITH, S.L. and MOSIER, J.N. (1984). *Design Guidelines for User-System Interface Software*. Technical Report ESD-TR-84-190, Hanscom Air Force Base, MA. USAF Electronics Division, NTIS No. AD.A154 907.

SMITH, S.L. and MOSIER, J.N. (1985). The user interface to computer-based information systems: a survey of current software design practice. In: B. Shackel (ed.) (1985), *Human-Computer Interaction - INTERACT '84*. Proceedings of the first IFIP conference on human-computer interaction. Amsterdam: Elsevier Science Publishers B.V. (North-Holland).

SMITH, S.L. and MOSIER, J.N. (1986). *Guidelines for Designing User Interface Software*. Technical Report ESD-TR-86-278, MTR 10090. Mitre Corporation, Bedford, MA.

STEWART, T. (1980). Communicating with dialogues. *Ergonomics, **23**, 909-919*. [Cited in Smith & Mosier 1986.]

STORY, M. F. (1998). Maximizing usability: the principles of universal design. *Assistive Technology, **10(1)**, 4-12*.

SUTCLIFFE, A. (1995). *Human-Computer Interface Design*. 2nd Edition. Basingstoke: Macmillan Press.

SUTCLIFFE, A.G., RYAN, M., DOUBLEDAY, A. and SPRINGETT, M. (2000). Model mismatch analysis: towards a deeper explanation of users' usability problems. *Behaviour and Information Technology, 2000, **19(1)**, 43-55*.

TAUSCHER, L. and GREENBERG, S. (1997). How people revisit web pages: empirical findings and implications for the design of history systems. *International Journal of Human-Computer Studies, July 1997, **47**, 97-137*.

TETZLAFF, L. and SCHWARTZ, D.R. (1991). The use of guidelines in interface design. In: S.P. Robertson, G.M. Olson and J.S. Olson (eds.), *Reaching Through Technology: CHI '91 conference proceedings*. ACM conference on human factors in computing systems, New Orleans, April-May 1991. New York: Addison-Wesley.

THIMBLEBY, H. (1984). User interface design: generative user engineering principles. In: A. F. Monk (1984), *Fundamentals of Human-Computer Interaction*. London: Academic Press.

THIMBLEBY, H. (1991). Design of interactive systems. In: McDermid, J.A. (ed.), *Software Engineer's Reference Book*. Oxford: Butterworth & Heinemann.

TRENNER, L. and BAWA, J. (eds.) (1998). *The Politics of Usability: a practical guide to designing usable systems in industry*. London: Springer.

TYLDESLEY, D.A. (1988). Employing usability engineering in the development of office products. *The Computer Journal, 1988, **31(5)**, 431-436*.

Van NES, F. L. (1986). Space, colour and typography on visual display terminals. *Behaviour and Information Technology, 1986, **5(2)**, 99-118*.

Van WELIE, M., van der VEER, G.C. and ELIËNS, A. (1999). Breaking down usability. In: M.A. Sasse and C. Johnson (eds.), *Human-Computer Interaction - INTERACT '99*. Proceedings of the 7th IFIP TC.13 international conference on human-computer interaction, Edinburgh, August-September 1999. Amsterdam: IOS Press.

VAUGHAN, M.W. (1998). Testing the boundaries of two user-centered design principles: metaphors and memory load. *International Journal of Human-Computer Interaction, **10(3)**, 265-282*.

VIRZI, R.A. (1990). Streamlining the design process: running fewer subjects. *Proceedings of the Human Factors Society 34th Annual Meeting, 1990, 291-294*.

VIRZI, R.A. (1992). Refining the test phase of usability evaluation: how many subjects is enough ? *Human Factors, 1992, **34(4)**, 457-468*.

VIRZI, R.A. (1997). Usability inspection methods. In: M. Helander, T.K. Landauer and P. Prabhu (eds.), *Handbook of Human-Computer Interaction*. 2nd Edition. Amsterdam: Elsevier Science B.V.

VIRZI, R.A., SORCE, J.F. and HERBERT, L.B. (1993). A comparison of three usability evaluation methods: heuristic, think-aloud and performance testing. *Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting, 1993, **1**, 309-313.* Human Factors and Ergonomics Society.

VP-Lab (1999). http://cti-pc.york.ac.uk/vplabprototype.

WÆRN, Y. (1989). *Cognitive Aspects of Computer Supported Tasks*. Chichester: John Wiley & Sons.

WHITEFIELD, A., WILSON, F. and DOWELL, J. (1991). A framework for human factors evaluation. *Behaviour & Information Technology, 1991, **10(1)**, 65-79*.

WHITESIDE, J., BENNETT, J. and HOLTZBLATT, K. (1988). Usability engineering: our experiences and evolution. In: M. Helander (ed.), *Handbook of Human-Computer Interaction*. Amsterdam: Elsevier Science Publishers B.V. (North-Holland).

WIKLUND, M.E. (ed.) (1994). Usability in Practice: how companies develop user-friendly products. Boston: Academic Press.

WILLIAMS, G. and McCLINTOCK, M. (1997). Usability at Microsoft. In: S. Howard, J. Hammond and G. Lindgaard (eds.), *Human-Computer Interaction: INTERACT '97*. Proceedings of the 6th IFIP TC.13 international conference on human-computer interaction, Sydney, July 1997. London: Chapman & Hall.

WILLIGES, B.H. and WILLIGES, R.C. (1984). Dialogue design considerations for interactive computer systems. In: F.A. Muckler (ed.), *Human Factors Review, 1984, 167-208*. Santa Monica, CA: Human Factors Society.

WIXON, D. and WILSON, C. (1997). The usability engineering framework for product design and evaluation. In: M. Helander, T.K. Landauer and P. Prabhu (eds.), *Handbook of Human-Computer Interaction*. 2nd Edition. Amsterdam: Elsevier Science B.V.

WIXON, D., HOLTZBLATT, K. and KNOX, S. (1990). Contextual design: an emergent view of system design. In: J.C. Chew and J. Whiteside (eds.), *Empowering People: CHI '90 conference proceedings*. ACM conference on human factors in computing systems, Seattle, April 1990. (Special issue of the SIGCHI Bulletin). Seattle: Addison-Wesley.

WRIGHT, P. and MONK, A.F. (1989). Evaluation for Design. In: A. Sutcliffe and L. Macaulay (eds.), *People and Computers V*. Proceedings of the fifth conference of the British Computer Society human-computer interaction specialist group, Nottingham, September 1989. Cambridge: Cambridge University Press.

WRIGHT, P.C. and MONK, A.F. (1991). A cost-effective evaluation method for use by designers. *International Journal of Man-machine Studies, 1991, **35**, 891-912*.

WRIGHT, S.J., PACKEBUSH, S.J. and MITTA, D.A. (1993). Software interface evaluation: modelling of human error. *Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting, 1993, **1**, 453-455*. Human Factors and Ergonomics Society.

ZAPF, D., BRODBECK, F.C., FRESE, M., PETERS, H. and PRÜMPER, H. (1992). Errors in working with office computers: a first validation of a taxonomy for observed errors in a field setting. *International Journal of Human-Computer Interaction, 1992, **4(4)**, 311-339*.

ZETIE, C. (1995). *Practical User Interface Design*. London: McGraw-Hill.