

References

- Allnutt, M. F. (1987). Human factors in accidents. *British Journal of Anaesthesia*, **59**, 856–864.
- Applebaum, E. L., and Bruce, D. L. (1976). *Tracheal Intubation*. Philadelphia: Saunders.
- ASA. (1993). Practice guidelines for management of the difficult airway. *Anesthesiology*, **78**, 597–602.
- Auerbach, P. S., and Geehr, E. C. (1983). Inadequate oxygenation and ventilation using the EGTA in the prehospital setting. *JAMA*, **250**, 3067–3071.
- Backer, P. R., and Orasanu, J. (1992). *Stress, Stressors and performance in military operations: A review*. Tech. rept. Contract #DAAL03-86-D001. U.S. Army Research Institute.
- Bainbridge, L. (1974). Analysis of verbal protocols from a process control task. In: Edwards, E., and Lees, F. P. (Eds.), *The Human Operator in Process Control*. London: Taylor & Francis.
- Baker, D. P., and Salas, E. (1992). Principles for measuring teamwork skills. special issue: Measurement in human factors. *Human Factors*, **34**, 469–475.
- Banks, W.W. & Boon, M. (1981). A method for quantifying control accessibility,. *Human Factors*, **23**, 299–303.
- Beishon, R. J. (1974). An analysis and simulation of an operator's behaviour in controlling continuous baking ovens. In: Edwards, E., and Lees, F. P. (Eds.), *The Human Operator in Process Control*. London: Taylor & Francis.
- Berkun, M. M. (1964). Performance decrement under psychological stress. *Human Factors*, **6**, 21–30.
- Birmingham, P. K., Cheney, F. W., and Ward, R. J. (1986). Esophageal intubation: a review of detection techniques. *Anesthesia and Analgesia*, **65**, 886–891.
- Bogner, M. S. (1994). Error reduction as a systems problem. In: Bogner, M. S. (Ed.), *Human Error in Medicine*. Hillsdale NJ: Erlbaum.
- Boguslaw, R., and Porter, E. H. (1962). Team functions and training. In: Gagne, R. M. (Ed.), *Psychological Principles in System Development*. New York: Holt, Rinehart & Winston.

- Bonney, M. C., and Williams, R. W. (1977). Capable: A computer program to layout controls and panels. *Ergonomics*, **20**, 297–316.
- Boquet, G., Bushman, J. A., and Davenport, H. T. (1980). The anaesthesia machine - a study of function and design. *British Journal of Anaesthesia*, **52**, 61.
- Brain, A. I. J. (1983). The laryngeal mask: a new concept in airway management. *British Journal of Anaesthesia*, **50**, 801–805.
- Brennan, T. A., Leape, L. L., Laird, N., Herbert, L., Localio, A. R., Lawthers, A. G., Newhouse, J. P., Weiler, P., and Hiatt, H. H. (1991). Incidence of adverse events and negligence in hospitalized patients; results of the Harvard Medical Practice Study I. *New England Journal of Medicine*, **324**, 370–376.
- Brenner, M., Doherty, E. T., and Shipp, T. (1994). Speech measures indicating workload demand. *Aviation, Space, and Environmental Medicine*, **65**, 21–26.
- Brown, D. L. (1987). Trauma management: the anesthesiologist's role. *International Anesthesiology Clinics*, **25**, 1–18.
- Burchard, K. W., and Rowland-Morin, P. A. (1990). A new method of assessing the interpersonal skills of surgeons. *Academic Medicine*, 274–276.
- Burton, R. R., Storm, W. F., Johnson, L. W., and Leverett, S. D., J. (1977). Stress responses of pilots flying high-performance aircraft during aerial combat maneuvers. *Aviation, Space, and Environmental Medicine*, **48**, 301–307.
- Cannon-Bowers, J. A., Tannenbaum, S. I., Salas, E., and Converse, S. A. (1991). Toward an integration of training theory and technique. *Human Factors*, **33**, 281–292.
- Caplan, R. A., Posner, K. L., Ward, R. J., and Cheyney, F. W. (1990). Adverse respiratory events in anesthesia: A closed claims analysis. *Anesthesiology*, **72**, 828–833.
- Caro, P. W. (1988). Flight training and simulation. In: Wiener, E. L., and Nagel, D. C. (Eds.), *Human Factors in Aviation*. San Diego, CA: Academic Press.
- Carroll, J. S., and Johnson, E. J. (1990). *Decision research: A field guide*. Newbury Park, CA: Sage.
- Cheney, F. W., Posner, K. L., and Caplan, R. A. (1991). Adverse respiratory events infrequently leading to malpractice suits. *Anesthesiology*, **75**, 932–939.
- Clyburn, P., and Rosen, M. (1994). Accidental oesophageal intubation. *British Journal of Anaesthesia*, **73**, 55–3.
- Cook, R. I., and Woods, D. D. (1994). Operating at the sharp end: The complexity of human error. In: Bogner, M. S. (Ed.), *Human error in medicine*. Hillsdale, New Jersey: Lawrence Erlbaum Associates.
- Cooper, J. B., Newbower, R. S., Long, C. D., and McPeck, G. (1978). Preventable anesthesia mishaps: A study of human factors. *Anesthesiology*, **49**, 399–406.

- Cooper, J. B., Newbower, R. S., and Kitz, R. J. (1984). An analysis of major errors and equipment failures in anesthesia management: Considerations for prevention and detection. *Anesthesiology*, **60**, 34–42.
- Coury, B. G., and Boulette, M. D. (1992). Time stress and the processing of visual displays. *Human Factors*, **34**, 707–725.
- Crossman, E. R. F. W., and Cooke, J. E. (1962). Manual control of slow-response systems. In: *International Conference on Human Factors in Electronics*.
- de Groot, A. D. (1965). *Thought and Choice in Chess*. Netherlands: Hague Mouton.
- DeKeyser, V., Woods, D. D., Masson, M., and van Daele, A. (1990). Fixation errors: failures to revise situation assessment in dynamic and risky systems. In: Colombo, A., and Bustamante, A. (Eds.), *Systems Reliability Assessment*. Dordrecht: Kluwer Academic Publishers.
- Doherty, Thomas, E. (1991). Speech analysis techniques for detecting stress. In: *Proceedings of the Human Factors and Ergonomics Society 35th Annual meeting*, 689–693, vol. 1. Santa Monica, CA: Human Factors and Ergonomics Society.
- Donchin, Y., Gopher, D., Olin, M., Badihi, Y., Biesky, M., Sprung, C. L., Pizov, R., and Cotev, S. (1995). A look into the nature and causes of human errors in the intensive care unit. *Critical Care Medicine*, **23**, 294–300.
- Driscoll, P. A., and Vincent, C. A. (1992). Organizing an efficient trauma team. *Injury*, **23**, 107–110.
- Driskell, J. E., and Salas, E. (1992). Collective behavior and team performance. *Human Factors*, **34**, 277–288.
- Easterbrook, J. A. (1959). The effect of emotion on cure utilization and the organization of behavior. *Psychological Review*, **66**, 183–201.
- Edsall, D. W., Jones, B. R., and Smith, N. T. (1992). The anesthesia database, the automated record, and the quality assurance process. *International Anesthesiology Clinics*, **30**, 71–92.
- Edwards, E., and Lees, F. P. (Eds.). (1974). *The Human Operator in Process Control*. London: Taylor & Francis.
- Einhorn, H. J., and Hogarth, R. M. (1981). Behavioral decision theory: Processes of judgment and choice. *Annual Review of Psychology*, **32**, 53–88.
- Elstein, A. S., Shulman, L. S., and Sprafka, S. A. (1978). *Medical problem solving: An analysis of clinical reasoning*. Cambridge, MA: Harvard University Press.
- Ericsson, K. A., and Simon, H. A. (1984). *Protocol Analysis: Verbal Reports as Data*. Cambridge, MA: MIT Press.
- Eysenck, M. W. (1976). Arousal, learning, and memory. *Psychological Bulletin*, **83**, 389–404.

- FAA. (Feb 1995). *Federal Aviation Regulations Part 135. Air Taxi Operators and Commercial Operators. Sub Part B 135 100. Flight Crew Member Duties*. Jeppesen Englewood CO. U.S. FAR. Tech. rept. FAA, Washington, DC.
- Flanagan, J. C. (1954). The critical incident technique. *Psychological Bulletin*, **51**, 327–358.
- Fleishman, E. A., and Zaccaro, Stephen, J. (1992). Toward a taxonomy of team performance functions. In: Swezey, R. W., and Salas, E. (Eds.), *Teams: Their Training and Performance*. Norwood, NJ: Ablex.
- Foushee, H. C., and Helmreich, R. L. (1988). Group interaction and flight crew performance. In: Wiener, E. L., and Nagel, D. C. (Eds.), *Human Factors in Aviation*. San Diego, CA: Academic Press.
- Fuchs, A. (1962). The progressive-regressive hypothesis in perceptual-motor skill learning. *Journal of Experimental Psychology*, **63**, 177–181.
- Gaba, D. M., and DeAnda, A. (1988). A comprehensive anesthesia simulation environment: re-creating the operating room for research and training. *Anesthesiology*, **69**, 387–394.
- Gaba, D. M., and DeAnda, A. (1989). The response of anesthesia trainees to simulated critical incidents. *Anesthesia and Analgesia*, **68**, 444–451.
- Gaba, D. M., Maxwell, M., and DeAnda, A. (1987). Anesthetic mishaps: Breaking the chain of accident evolution. *Anesthesiology*, **66**, 670–676.
- Gaba, D. M., Fish, K. J., and Howard, S. K. (1994). *Crisis Management in Anesthesiology*. New York: Churchill Livingstone.
- Gaba, D. M., Howard, S. K., and Small, S. D. (1995). Situation awareness in anesthesiology. *Human Factors*, **37**, 20–31.
- Galinsky, T. L., Rosa, R. R., Warm, J. S., and Dember, W. N. (1993). Psychophysical determinants of stress in sustained attention. *Human Factors*, **35**, 603–614.
- Gallwey, T. J., and Drury, C. G. (1986). Task complexity in visual inspection. *Human Factors*, **28**, 595–606.
- Gladwin, C. H. (1989). *Ethnographic Decision Tree Modeling*. Newbury Park, CA: Sage.
- Goldberger, L., and Breznitz, S. (Eds.). (1982). *Handbook of Stress*. New York: Free Press.
- Goldman, L. I., McDonough, M. T., and Rosemond, G. P. (1972). Stress affecting surgical performance and learning i: Correlation of heart rate, electrocardiogram, and operation simultaneously recorded on videotapes. *Journal of Surgical Residents*, **12**, 83–86.
- Good, M. L., and Gravenstein, J. S. (1989). Anesthesia simulators and training devices. *Int Anesthesiology Clin*, **27**, 161–166.

- Green, T. G., O'Connor, P., Sparks, D. D., and Eddlemon, C. L. (1983). Improving clinical teaching by videotaping performance. *Journal of Dental Education*, **47**, 118–119.
- Hackman, J. R., and Morris, C. G. (1975). Group tasks, group interaction process, and group performance effectiveness: a review and proposed integration. In: Berkowitz, L. (Ed.), *Advances in Experimental Social Psychology*, vol. 8. New York: Academic Press.
- Hammond, K. R. (1986). Generalization in operational contexts: What does it mean? Can it be done? *IEEE Transactions on Systems, Man, and Cybernetics*, **SMC-16**, 428–433.
- Harrison, B. L. (1991). Video annotation and multimedia interfaces: from theory to practice. In: *Proceedings of the Human Factors Society 35th Annual Meeting*, 319–323.
- Hart, S. G., and Hauser, J. R. (1987). In-flight application of three pilot workload measurement techniques. *Aviation, Space, and Environmental Medicine*, **58**, 402–410.
- Haslam, R. R., Morris, D. G., and Mertin, P. (1985). Video recording in an acute care perinatology unit. *Medical Journal of Australia*, **142**, 628–629.
- Helmreich, R. L. (1984). Cockpit management attitudes. *Human Factors*, **26**, 583–589.
- Helmreich, R. L., and Schaefer, H.-G. (1994). Team performance in the operating room. In: Bogner, M. S. (Ed.), *Human Error in Medicine*. Hillsdale, NJ: Erlbaum.
- Hendy, K. C., Hamilton, K. M., and Landry, L. N. (1993). Measuring subjective workload: When is one scale better than many? *Human Factors*, **35**, 579–601.
- Hollnagel, E., Pedersen, O. M., and Rasmussen, J. (1981). *Notes on Human Performance Analysis*. Tech. rept. Riso-M-2285. Riso National Laboratory, Roskilde, Denmark.
- Howard, S. K., Gaba, D. M., Fish, K. J., Yang, G., and Sarnquist, F. H. (1992). Anesthesia crisis resource management training: Teaching anesthesiologists to handle critical incidents. *Aviation, Space, and Environmental Medicine*, **63**, 763–770.
- Howells, T. H. (1983). A hazard of pre-oxygenation (letter). *Anaesthesia*, **40**, 86.
- Howells, T. H. (1985). Hazard of pre-oxygenation. *Anaesthesia*, **40**, 86.
- Howells, T. H., and Riethmuller, R. J. (1980). Signs of endotracheal intubation. *Anaesthesia*, **35**, 984–86.
- Hoyt, D. B., Shackford, S. R., Fridland, P. H., Mackersie, R. C., Hansbrough, J. F., Wachtel, T. L., and Fortune, J. B. (1988). Video recording trauma resuscitations: an effective teaching technique. *Journal of Trauma*, **28**, 435–440.
- Hunter, A., Mackenzie, C. F., Jefferies, N., Wesolowski, J., Bernhard, W., and the LOTAS Group. (1994). Video analysis of tasks performed during emergency, semi-emergency and elective intubation of trauma patients. *Anesthesiology*, **81**, A626.

- Hutchins, E. (1995). *Cognition in the wild*. Cambridge, MA: MIT Press.
- Janis, I. L. (1972). *Victims of Groupthink: A Psychological Study of Foreign-Policy Decisions and Fiascos*. Boston, MA: Houghton.
- Janis, I. L., and Mann, L. (1977). *Decision making: A psychological analysis of conflict, choice, and commitment*. New York, NY: Free Press.
- Kahneman, D., and Tversky, A. (1973). On the psychology of prediction. *Psychological Review*, **80**, 237–251.
- Kanki, B. G., Folk, V. G., and Irwin, C. M. (1991). Communication variations and aircrew performance. *International Journal of Aviation Psychology*, **1**, 149–162.
- Keinan, G., and Freidland, N. (1984). Dilemmas concerning the training of individuals for task performance under stress. *Journal of Human Stress*, **10**, 185–190.
- Keinan, G., and Freidland, N. (1987). Decision making under stress: Scanning of alternatives under physical threat. *Acta Psychologica*, **64**, 219–228.
- Kennedy, P. J., Feingold, A., Wiener, E. L., and Hosek, R. S. (1976). Analysis of tasks and human factors in anesthesia for coronary-artery bypass. *Anesthesia and Analgesia*, **55**, 374.
- Kennedy, R. S., and Coulter, X. B. (1975). Research note: The interactions among stress, vigilance, and task complexity. *Human Factors*, **17**, 106–109.
- Kerr, J. H. (1987). Is the tube in the trachea? *Brit Med J*, **295**, 400.
- Kiesler, S., Siegel, J., and McGuire, T. (1984). Social psychological aspects of computer-mediated communication. *American Psychologist*, **39**, 1123–1134.
- Klein, G. A. (1989). Recognition-primed decisions. In: Rouse, W. B. (Ed.), *Advances in Man-Machine Systems Research*, vol. 5. Greenwich, CT: JAI Press.
- Klein, G. A., and Calderwood, R. (1991). Decision models: Some lessons from the field. *IEEE Transactions on Systems, Man, and Cybernetics*, **SMC-21**, 1018–1026.
- Klein, G. A., Calderwood, R., and Clinton-Cirocco, A. (1986). Rapid decision making on the fire ground. In: *Proceedings of Human Factors Society 30th Annual Meeting*, 576–580.
- Klein, G. A., Orasanu, J., Calderwood, R., and Zsombok, C. E. (Eds.). (1993). *Decision making in action: Models and methods*. Norwood, NJ: Ablex.
- Kleinmuntz, D. N. (1987). Human decision processes: Heuristics and task structure. In: Hancock, P. A. (Ed.), *Human Factors Psychology*. Amsterdam: North-Holland.
- Koriat, A., Lichtenstein, S., and Fischhoff, B. (1980). Reasons for confidence. *Journal of Experimental Psychology: Human Learning and Memory*, **6**, 107–117.
- Lauber, J. K. (1977). Cockpit resource management: background and overview, cockpit resource management training, cockpit resource management training. In: *Proceedings of the NASA/MAC workshop*. NASA-Ames Research Center.

- Lazarus, R. S., and Eriksen, C. W. (1952). Effects of failure stress on skilled performance. *Journal of Experimental Psychology*, **43**, 100–105.
- Leape, L. L. (1994). The preventability of medical injury. In: Bogner, M. S. (Ed.), *Human error in medicine*. Hillsdale, NJ: Erlbaum.
- León, M. A., Räsänen, J., and Mangar, D. (1994). Neural network-based detection of esophageal intubation. *Anesthesia and Analgesia*, **78**, 548–553.
- Linko, K., Paloheimo, M., and Tammisto, T. (1983). Capnography for detection of accidental esophageal intubation. *Acta Anaesthesiol Scand*, **27**, 199–202.
- Liu, L. M. P., DeCook, T., Goudsouzian, N. G., Ryan, J. F., and Liu, P. L. (1981). Dose response to intramuscular succinylcholine in children. *Anesthesiology*, **55**, 599–602.
- Mackenzie, C. F. (1995). Simulation of trauma anesthesia. In: Grande, C. (Ed.), *Textbook of Trauma Anesthesia and Critical Care*. St. Louis: Mosby.
- Mackenzie, C. F., Craig, G. R., Parr, M. J., Horst, R., and the LOTAS Group. (1994). Video analysis of two emergency tracheal intubations identifies flawed decision making. *Anesthesiology*, **81**, 911–919.
- Mackenzie, C. F., Hu, P. F., Horst, R. L., and the LOTAS Group. (1995). An audio-video acquisition system for automated remote monitoring in the clinical environment. *Journal of Clinical Monitoring*, **11**, 335–341.
- Mackenzie, C. F., Jefferies, N. J., Hunter, A., Bernhard, W., Xiao, Y., the LOTAS Group, and Horst, R. L. (1996a). Comparison of self reporting of deficiencies in airway management with video analyses of actual performance. *Human Factors*, **38**, 623–635.
- Mackenzie, C. F., Martin, P., Xiao, Y., and the LOTAS Group. (1996b). Video analysis of prolonged uncorrected esophageal intubation. *Anesthesiology*, **84**, 1394–1503.
- Mann, F. A., Walkup, R. K., Benjamin, C. R., Bessey, P. Q., Wilson, A. J., and Vanner, M. W. (1994). Computer-based videotape analysis of trauma resuscitation for quality assurance and clinical research. *Journal of Trauma*, **36**, 226–230.
- Mazze, R. I., and Dunbar, R. W. (1968). Intralingual succinylcholine administration in children. an alternative to intravenous and intramuscular routes? *Anesthesia and Analgesia*, **47**, 605–615.
- Moon, J. (1987). Data interfacing in automated record and alarm systems: the alpha pc. In: Gravenstein, J. S., Newbower, R. S., Reain, A. K., and Smith, N. T. (Eds.), *The Automated Anesthesia Record and Alarm Systems*. Boston: Butterworths.
- Moray, N., and Rotenberg, I. (1989). Fault management in process control: eye movements and action. *Ergonomics*, **32**, 1319–1342.
- Moray, N., Lootsteen, P., and Pajak, J. (1986). Acquisition of process control skills. *IEEE Transactions on Systems, Man, and Cybernetics*, **SMC-16**, 497–504.

- Moray, N., Sanderson, P. M., and Vicente, K. J. (1992). Cognitive task analysis of a complex work domain: a case study. *Reliability Engineering and System Safety*, **36**, 207–216.
- Morgan, Ben B., J., Coates, G. D., Kirby, R. H., and Alluisi, E. A. (1984). Individual and group performances as functions of the team-training load. *Human Factors*, **26**, 127–142.
- Morrisette, J. O., Hornseth, J. P., and Shellar, K. (1975). Team organization and monitoring performance. *Human Factors*, **17**, 296–300.
- Murray, I. V., and Modell, J. H. (1983). Early detection of endotracheal tube accidents by monitoring carbon dioxide concentration in respiratory gas. *Anesthesiology*, **59**, 344–46.
- Nagel, D. C. (1988). Human error in aviation operations. In: Weiner, E. L., and Nagel, D. C. (Eds.), *Human Factors in Aviation*. San Diego, CA: Academic Press.
- National Research Council. (1990). *Distributed Decision Making*. Washington, DC: National Academy Press.
- Newell, A., and Simon, H. A. (1972). *Human problem solving*. Englewood Cliffs, NJ: Prentice-Hall.
- Nygren, T. E. (1991). Psychometric properties of subjective workload measurement techniques: Implications for their use in the assessment of perceived mental workload. *Human Factors*, **33**, 17–33.
- Orasanu, J. (1990). *Shared mental models and crew decision making*. Tech. rept. 46. Cognitive Science Laboratory, Princeton University, Princeton, NJ.
- Payne, J. W. (1976). Task complexity and contingent processing in decision making: An information search and protocol analysis. *Organizational Behavior and Human Performance*, **16**, 366–387.
- Payne, J. W., Bettman, J. R., and Johnson, E. J. (1992). Behavioral decision research: A constructive processing perspective. *Annual Review of Psychology*, **43**, 87–131.
- Perrow, C. (1984). *Normal accidents: living with high-risk technologies*. New York: Basic Books.
- Pew, R. W., Miller, D. C., and Feehrer, C. E. (1981). *Evaluation of proposed control room improvements through analysis of critical operator decisions*, NP-1982. Palo Alto, CA: Electric Power Research Institute.
- Pollard, B. J., and Junius, F. (1980). Accidental intubation of the oesophagus. *Anaesthesia and Intensive Care*, **8**, 183–186.
- Pringle, M., and Stewart-Evans, C. (1990). Does awareness of being video recorded affect doctors' consultation behaviour? *British Journal of General Practice*, **40**, 455–458.

- Rasmussen, J. (1976). Outlines of a hybrid model of the process plant operator. In: Sheridan, T. B., and Johanssen, G. (Eds.), *Monitoring behavior and supervisory control*. New York: Plenum Press.
- Rasmussen, J. (1983). Skills, rules, and knowledge; Signals, signs, and symbols, and other distinctions in human performance models. *IEEE Transactions on Systems, Man, and Cybernetics*, **SMC-13**, 257–266.
- Rasmussen, J. (1993). Deciding and doing: decision making in natural context. In: Klein, G. A., Orasanu, J., Calderwood, R., and Zsombok, C. E. (Eds.), *Decision making in action: Models and methods*. Norwood, NJ: Ablex.
- Rasmussen, J., Brehmer, B., and Leplat, J. (Eds.). (1991). *Distributed Decision Making: Cognitive Models for Cooperative Work*. Chichester: Wiley.
- Rasmussen, J., Pejtersen, A. M., and Goodstein, L. P. (1994). *Cognitive systems engineering*. New York: Wiley.
- Reason, J. (1990). *Human Error*. Cambridge, UK: Cambridge University Press.
- Rogalski, J., and Samurçay, R. (1993). Analysing communication in complex distributed decision-making. *Ergonomics*, **36**, 1329–1343.
- Roland, M. (1983). Videotape as a research tool. *Journal of the Royal College of General Practitioners*, **33**, 300–301.
- Roth, E. M., Bennett, K. B., and Woods, D. D. (1987). Human interaction with an “intelligent” machine. *International Journal of Man-Machine Studies*, **27**, 247–525.
- Runciman, W. B., Sellen, A., Webb, R. K., Williamson, J. A., Currie, M., Morgan, C., and Russell, W. J. (1993). Errors, incidents and accidents in anaesthetic practice. *Anaesthesia Intensive Care*, **21**, 506–519.
- Russell, M. L., and Insull, W., J. (1979). A video-recording system for evaluating the clinical interview—a simple, inexpensive method. *Medical Progress through Technology*, **6**, 141–145.
- Sanders, M. S., and McCormick, E. J. (1987). *Human Factors in Engineering and Design*. six edn. New York: McGraw-Hill.
- Sanderson, P. M., and Fisher, C. (1994). Exploratory sequential data analysis: Foundations. *Human-Computer Interaction*, **9**, 251–317.
- Sanderson, P. M., James, J. M., and Seidler, K. S. (1989). SHAPA: An interactive software environment for protocol analysis. *Ergonomics*, **32**, 1271–1302.
- Schwid, H. A., and O’Donnell, D. (1990). The anesthesia simulator-recorder: a device to train and evaluate anesthesiologists’ responses to critical incidents. *Anesthesiology*, **72**, 191–197.
- Schwid, H. A., and O’Donnell, D. (1992). Anesthesiologists’ management of simulated critical incidents. *Anesthesiology*, **76**, 495.

- Sears, A. (1993). Layout appropriateness: A metric for evaluating user interface widget layout. *IEEE Transactions on Software Engineering*, **19**, 707.
- Segal, L. D. (1994). Actions speak louder than words: How pilots use nonverbal information for crew communications. In: *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 21–25.
- Serfaty, D., Entin, E. E., and Volpe, C. (1993). Adaptation to stress in team decision-making and coordination. In: *Proceedings of the Human Factors and Ergonomics Society 37th Annual meeting*, 1228–1232, vol. 2. Santa Monica, CA: Human Factors and Ergonomics Society.
- Shrout, P. E., and Fleiss, J. L. (1979). Intraclass correlation: uses in assessing rater reliability. *Psychological Bulletin*, **86**, 420–428.
- Simonov, P. V., Frolov, M. V., Evtushenko, V. F., and Suiridov, E. P. (1977). Effect of emotional stress on recognition of visual patterns. *Aviation, Space, and Environmental Medicine*, **48**, 856–858.
- Sinnott, J. D. (Ed.). (1989). *Everyday problem solving*. New York: Praeger.
- Small, S., Cullen, D. J., Bates, D., Cooper, J. B., and Leape, L. (1994). The incident reporting system lacks validity as the basis for a quality assurance program. *Anesthesiology*, **91**, A1226.
- Smith, J. P., Bodai, B. I., Seifkin, A., Palder, S., and Thomas, V. (1983). The esophageal obturator airway: a review. *JAMA*, **250**, 1081–1084.
- Smith, M., Macintosh, P., Sverrisdottir, A., and Robertson, C. (1993). Improved coordination makes for faster work. ergonomic analysis of a trauma resuscitation room. *Professional Nurse*, **8**, 711–715.
- Sperandio, J. C. (1971). Variation of operator's strategies and regulating effects on workload. *Ergonomics*, **14**, 571–577.
- Spettel, C. M., and Liebert, R. M. (1986). Training for safety in automated person-machine systems. *Am Psychol*, **41**, 545–550.
- Tardiff, K. (1981). A videotape technique for measuring clinical skills: Three years of experience. *Journal of Medical Education*, **56**, 187–191.
- Tardiff, K., Redfield, J., and Koran, L. M. (1978). Evaluation of a videotape technique for measuring clinical psychiatric skills of medical students. *Journal of Medical Education*, **53**, 438–440.
- Teasdale, G., and Jennett, B. (1974). Assessment of coma and impaired consciousness. *Lancet*, **ii**, 81–84.
- Townsend, R. N., Clark, R., Ramenofsky, M. L., and Diamond, D. L. (1993). ATLS-based videotape trauma resuscitation review: education and outcome. *Journal of Trauma*, **34**, 133–138.
- Tukey, J. W. (1977). *Exploratory data analysis*. Reading, MA: Addison-Wesley.

- Tversky, A., and Kahneman, D. (1974). Judgment under uncertainty: Heuristics and biases. *Science*, **185**, 1124–1131.
- Tversky, A., and Kahneman, D. (1983). Extensional versus intuitive reasoning: The conjunction fallacy in probability judgment. *Psychological Review*, **90**, 293–315.
- U.S. Congress, Office of Technology Assessment. (1995). *Bringing Health Care Online: The Role of Information Technologies (OTA-ITC-624)*. Washington, DC: U.S. Government Printing Office.
- Utting, J. E., Gray, T. C., and Shelley, F. C. (1979). Human misadventure in anaesthesia. *Canadian Anaesthesia Society Journal*, **26**, 472–478.
- Webb, R. K., Currie, M., Morgan, G. A., Williamson, J. A., Mackay, P., Russell, W. J., and Runciman, W. B. (1993). The Australian Incident Monitoring Study: An analysis of 2000 incident reports. *Anaesth Intens Care*, **21**, 520–28.
- Wee, M. Y. (1988). The oesophageal detector device: Assessment of a new method to distinguish oesophageal from tracheal intubation. *Anaesthesia*, **43**, 27–9.
- Weinger, M. B., and Englund, C. E. (1990). Ergonomic and human factors affecting anesthetic vigilance and monitoring performance in the operating room environment. *Anesthesiology*, **73**, 995–1021.
- Weltman, G., Smith, J. E., and Egstrom, G. H. (1971). Perceptual narrowing during simulated pressure-chamber exposure. *Human Factors*, **13**, 99–107.
- Weston, C. F., Richmond, P., McCabe, M. J., Evans, R., and Evans, R. (1992). Video recording of cardiac arrest management: an aid to training and audit. *Resuscitation*, **24**, 13–15.
- Woods, D. D. (1984). Some results on operator performance in emergency events. In: *Ergonomics problems in process operations—Proceedings of Institution of Chemical Engineers Symposium Series No. 90*, 21–31.
- Woods, D. D. (1988). Coping with complexity: The psychology of human behavior in complex systems. In: Goodstein, L. P., Andersen, H. B., and Olsen, S. E. (Eds.), *Tasks, Errors, and Mental Models*. New York: Taylor & Francis.
- Woods, D. D. (1993). Process tracing methods for the study of cognition outside of the experimental psychology laboratory. In: Klein, G. A., Orasanu, J., Calderwood, R., and Zsombok, C. E. (Eds.), *Decision making in action: Models and methods*. Norwood, NJ: Ablex.
- Xiao, Y. (1994). *Interacting with complex work environment: A field study and a planning model*. Ph.D. thesis, University of Toronto, Toronto, Ontario, Canada.
- Xiao, Y., and Mackenzie, C. F. (1996). Remote diagnosis in dynamic task environments. In: *Proceedings of Human Factors and Ergonomics Society 40th Annual Meeting*, 218–222. Santa Monica, CA: Human Factors and Ergonomics Society.

- Xiao, Y., Milgram, P., and Doyle, D. J. (1993). Two classes of problem solving situations in managing complex systems. In: *Proceedings of Human Factors and Ergonomics Society 37th Annual Meeting*, 529–533. Santa Monica, CA: Human Factors and Ergonomics Society.
- Xiao, Y., Mackenzie, C. F., and the LOTAS Group. (1995). Decision making in dynamic environments: Fixation errors and their causes. In: *Proceedings of Human Factors and Ergonomics Society 39th Annual Meeting*, 469–473. Santa Monica, CA: Human Factors and Ergonomics Society.
- Xiao, Y., , Mackenzie, C. F., and Spencer, R. (1997). The effect of experience background on remote diagnosis. In: *Proceedings of Human Factors and Ergonomics Society 41th Annual Meeting*, (in press). Santa Monica, CA: Human Factors and Ergonomics Society.
- Yerkes, R. M., and Dodson, J. D. (1908). The relation of strength of stimulus to rapidity of habit formation. *Journal of Comparative Neurological Psychology*, **18**, 459–482.