

REFERENCES

1. Ajenstat, J., Paradise, D., and Power, D. "Call for Participation on 2007 Pre-ICIS SIG DSS Workshop," Fifth Pre-ICIS SIG DSS Workshop, Montreal, Quebec, Canada, 2007.
2. Anderson, P. "Information Technology: Where is It in the Coordination of Emergency Services," Asia Pacific Police Technology Conference, 1991.
3. Ashcroft, J., Daniels, D.J., and Hart, S.V. "Crisis Information Management Software (CIMS) Feature Comparison Report," National Institute of Justice, Washington, DC.
4. Auf der Heide, E. *Disaster Response: Principles of Preparation and Coordination* F.A.C.E.P., 1989.
5. Aylward, D., and Jones, E. "Data Interoperability: Sharing Information for a Safer America," COMCARE Emergency Response Alliance, 2006.
6. Belardo, S., and Karwan, K.R. "The Development of a Disaster Management Support System through Prototyping," *Information and Management* (10:2) 1986.
7. Berge, D. *The First 24 Hours: A Comprehensive Guide to Successful Crisis Communications* Basil Blackwell, Cambridge, MA, 1990.
8. Berndt, D.J., Fisher, J.W., Craighead, J.G., Hevner, A.R., Luther, S., and Studnicki, J. "The Role of Data Warehousing in Bioterrorism Surveillance," *Decision Support Systems* (43:4) 2007.
9. Bernstein, C., and Woodward, B. *All the President's Men* Simon and Schuster, New York, NY, 1974.
10. Beroggi, G.E.G., and Wallace, W.A. "Real-Time Decision Support for Emergency Management: An Integration of Advanced Computer and Communications Technology," *Journal of Contingencies and Crisis Management* (3:1) 1995, p 18.
11. Biros, D.P., Daly, M., and Gunsch, G. "The Influence of Task Load and Automation Trust on Deception Detection," *Group Decision and Negotiation* (13) 2004.
12. BJA-DOJ "NIEM Executive Briefing," D.o. Justice (ed.), 2007.
13. Boland, R.J., and Tenkasi, R.V. "Perspective Making and Perspective Taking in Communities of Knowing," *Organization Science* (6) 1995.
14. Bond, S., and Cooper, S. "Modelling Emergency Decisions: Recognition-Primed Decision Making," *Journal of Clinical Nursing* (15:8) 2006.
15. Brandon, D.P., and Hollingshead, A.B. "Transactive Memory Systems in Organizations: Matching Tasks, Expertise, and People," *Organization Science* (15:6) 2004.
16. Brass, D.J. "Technology and the Structuring of Jobs: Employee Satisfaction, Performance, and Influence," *Organizational Behavior and Human Decision Processes* (35) 1985.
17. Breitbart, Y., Olson, P.L., and Thompson, G.R. "Database Integration in a Distributed Heterogeneous Database System," The Second International Conference on Data Engineering IEEE Computer Society, 1986.
18. Britton, B., and Tesser, A. "Effects of Prior Knowledge on Use of Cognitive Capacity in Three Complex Cognitive Tasks," *Journal of Verbal Learning and Verbal Behaviour* (21) 1982.
19. Bui, T.X. "Towards a Theory of Shared Mental Model in CSCW," 1992 Workshop on CSCW, 1992.
20. Bui, T.X., and Sankaran, S.R. "Design Considerations for A Virtual Information Center for Humanitarian Assistance/Disaster Relief Using Workflow Modeling," *Decision Support Systems* (31:2) 2001a.

21. Bui, T.X., and Sankaran, S.R. "Design Considerations for A Virtual Information Center for Humanitarian Assistance/Disaster Relief Using Workflow Modeling," *Decision Support Systems* (31:2) 2001b, pp 165-179.
22. Burghardt, P. "Emergency Management Information Systems: Future Needs and Requirements " in: *Information Systems for Crisis Response and Management (ISCRAM) 06*, 2006.
23. Carafano, J.J. "Preparing Responders to Respond: The Challenges to Emergency Preparedness in the 21st Century," *Heritage Lectures* (812) 2003.
24. Chen, H., Schroeder, J., Hauck, R., Ridgeway, H., Atabakhsh, H., Gupta, H., Boarman, C., K, R., and Clements, A. "COPLINK Connect: Information and Knowledge Management for Law Enforcement," *Decision Support Systems* (34:3) 2003a, pp 271-285.
25. Chen, H., Wang, F.Y., and Zeng, D. "Intelligence and Security Informatics for Homeland Security: Information, Communication, and Transportation," *IEEE Transactions on Intelligent Transportation Systems* (5:4) 2004, pp 329-341.
26. Chen, H., Zeng, D., Atabakhsh, H., Wyzga, W., and Schroeder, J. "COPLINK: Managing Law Enforcement Data and Knowledge," *Communication of the ACM* (46:1) 2003b, pp 28-34.
27. Chen, R. "Consumer's Initial Acceptance of E-Commerce Website: A Contingency Approach," AMCIS 2007, Keystone, CO, 2007.
28. Chen, R., Sharman, R., Rao, H.R., and Upadhyaya, S. "Design Principles of Coordinated Multi-incident Emergency Response Systems," IEEE International Conference on Intelligence and Security Informatics 2005, Atlanta, GA, 2005.
29. Chen, R., Sharman, R., Rao, H.R., and Upadhyaya, S. "Design Principles for Critical Incident Response Systems," *Information Systems and E-Business Management* (5:3) 2007a.
30. Chen, R., Sharman, R., Rao, H.R., and Upadhyaya, S. "Emergency Response Coordination and IT Support: Contingency and Strategies," AMCIS 2007, Keystone, CO, 2007b.
31. Cohen, M.D., March, J.G., and Olsen, J.P. "A Garbage Can Model of Organizational Choice," *Administrative Science Quarterly* (17:1) 1972.
32. Congress, t. "Health Insurance Portability and Accountability Act of 1996," in: *Public Law 104-191*, T. Congress (ed.), 1996.
33. Covello, V.T., von Winterfeldt, D., and Slobic, P. "Risk Communication: A Review of the Literature," *Risk Abstracts* (3:4) 1986.
34. Daft, R.L., Lengel, R.H., and Trevino, L.K. "Message Equivocality, Media Selection, and Manager Performance: Implications for Information Systems," *MIS Quarterly* (11:3) 1987.
35. Dawes, S.S., Birkland, T., Tayi, G.K., and Schneider, C.A. "Information, Technology, and Coordination: Lessons from the World Trade Center Response," Center for Technology in Government, 2004.
36. Dervin, B. "An Overview of Sense-Making Research: Concepts, Methods, and Results," in: *The Annual Meeting of the International Communication Association 1983*, Dallas, TX, 1983.
37. Dervin, B. "From the Mind's Eye of the User: The Sense-Making Qualitative-Quantitative Methodology," in: *Qualitative Research in Information Management*, J. Galzler and R. Powell (eds.), Libraries Unlimited, Englewood, Co, 1992, pp. 61-84.
38. DHS "National Incident Management System," D.o.H. Security (ed.), 2004, p. 138.
39. DHS "Fact Sheet: Achieving First Responder Communications Interoperability," in: *Department of Homeland Security Press*, Washington, DC, 2005.
40. Douglas, J. *Investigative Social Research* SAGE Publications, Newbury Park, CA, 1976.

41. Downs, A. *Inside Bureaucracy* Little, Brown, Boston, MA, 1967.
42. Fedorowicz, J., Gelinias, U.J., Gogan, J.L., Howard, M., Markus, M.L., Usoff, C., and Vidgen, R. "Modeling Physical Barriers to Interorganizational System Implementation Success," *International Journal of Information Technology and Management* (forthcoming) 2007.
43. Fitts, P.M. "The Information Capacity of the Human Motor System in Controlling the Amplitude of Movement," *Journal of Experimental Psychology* (121:3) 1992.
44. Frale, D. "Emergency Interoperability Consortium Announces Agreement with Department of Homeland Security to Promote Data Sharing During Emergencies," in: *PrimeZone Media Network*, 2005.
45. French, S., and Niculae, C. "Believe in the Model: Mishandle the Emergency," *Journal of Homeland Security and Management* (2) 2005.
46. Fruhling, A., and De Vreede, G.-J. "Field Experiences with eXtreme Programming: Developing an Emergency Response System," *Journal of Management Information Systems* (22:4) 2006.
47. Galbraith, J.R. *Designing Complex Organizations* Addison-Wesley, Reading, 1973.
48. Garstka, J., and Alberts, D. "Network Centric Operations Conceptual Framework Version 2.0," U.S. Office of Force Transformation and Office of the Assistant Secretary of Defense for Networks and Information Integration, 2004.
49. Gogan, J.L., Williams, C.B., and Fedorowicz, J. "Fatal Flaws in Information Sharing," *International Journal of Technology, Knowledge and Society* (1:5) 2005, pp 93-100.
50. Hale, J. "A Layered Communication Architecture for the Support of Crisis Response," *Journal of Management Information Systems* (14:1) 1997.
51. Harrison, T., Gil-Garcia, J.R., Pardo, T.A., and Fiona, T. "Learning about Interoperability for Emergency Response: Geographic Information Technologies and the World Trade Center Crisis," The Thirty-Ninth Annual Hawaii International Conference on System Sciences, Computer Society Press, Hawaii, 2006.
52. Housel, T.J., El Sawy, O.A., and Donovan, P.F. "Information Systems for Crisis Management: Lessons from Southern California Edison," *MIS Quarterly* (10:4) 1986.
53. Kim, J.K., Sharman, R., Rao, H.R., and Upadhyaya, S. "Efficiency of Critical Incident Management Systems: Instrument Development and Validation," *Decision Support Systems* (44:1) 2007.
54. Kim, Y.J., Kishore, R., and Sanders, G.L. "From DQ to EQ: Understanding Data Quality in the Context of E-Business Systems," *Decision Support Systems* (forthcoming) 2003.
55. Klein, G. "Recognition-Primed Decisions," in: *Advances in Man-Machine Systems Research, Vol 5*, W.B. Rouse (ed.), JAI Press, Greenwich, CT, 1989, pp. 47-92.
56. Klein, G. *Sources of Power: How People Make Decisions* The MIT Press, Cambridge, MA, 1999.
57. Leiss, W. *Prospects and Problems in Risk Communication* University of Waterloo, Waterloo, Ontario, Canada, 1989.
58. Majchrzak, A., Jarvenpaa, S.L., and Hollingshead, A.B. "Coordinating Expertise Among Emergent Groups Responding to Disasters," *Organization Science* (18:1) 2007, pp 147-161.
59. Majchrzak, A., Malhotra, A., and John, R. "perceived Individual Collaboration Know-How Development Through Information Technology-Enabled Contextualization: Evidence from Distributed Teams," *Information Systems Research* (16:1) 2005, pp 9-27.
60. Mak, H.-Y., Mallard, A.P., Bui, T.X., and Au, G. "Building Online Crisis Management Support Using Workflow Systems," *Decision Support Systems* (25:3) 1999.

61. Manoj, B.S., and Baker, A.H. "Communication Challenges in Emergency Response," *Communications of the ACM* (50:3) 2007, pp 51-53.
62. March, J.G., and Shapira, Z. "Behavioral Decision Theory and Organizational Decision Theory," in: *new Directions in Decision Making*, G. Ungson and D. Braunstein (eds.), Kent Publishing Co., Boston, MA, 1982.
63. McCanne, S., Vetterli, M., and Jacobson, V. "Low-Complexity Video Coding for Receiver-Driven Layered Multicast," *Selected Areas in Communications, IEEE Journal on* (15:6) 1997.
64. Mendonca, D. "Decision Support for Improvisation in Response to Extreme Events: Learning from the Response to the 2001 World Trade Center Attack," *Decision Support Systems* (43:3) 2007.
65. Michalowski, W., Rubin, S., Slowinski, R., and Wilk, S. "Mobile Clinical Support System for Pediatric Emergencies," *Decision Support Systems* (36:2) 2003.
66. Midkiff, S.F., and Bostian, C.W. "Rapidly-Deployable Broadband Wireless Networks for Disaster and Emergency Response," in: *The First IEEE Workshop on Disaster Recovery Networks (DIREN '02)*, New York, NY, 2002.
67. NCP "Priority Telecommunications Services," Department of Homeland Security, National Communications System, Washington, DC, 2006.
68. Nelson, M., and Gailly, J. *The Data Compression Book* M&T Books, New York, NY, 1995.
69. NEMSIS "EMS Data Dictionary," National Emergency Medical Services Information System Technical Assistance Center, 2007.
70. Nonaka, I. "A Dynamic Theory of Organizational Knowledge Creation," in: *The Strategic Management of Intellectual Capital and Organizational* N. Chun Wei Choo and Bontis (eds.), Oxford University Press, US, 2002.
71. Papamichail, K.N., and French, S. "Design and Evaluation of An Intelligent Decision Support System for Nuclear Emergencies," *Decision Support Systems* (41:1) 2005.
72. Paton, D., and Flin, R. "Disaster Stress: An Emergency management Perspective," *Disaster Prevention and Management* (8:4) 1999, pp 261-267.
73. Pauchant, T.C., and Mitroff, I.I. *Transforming the Crisis-Prone Organization: Preventing Individual, Organizational, and Eventual Tragedies* Jossey-Bass, San Francisco, 1992.
74. Pfeffer, J., and Salancik, G. *The External Control of Organizations: A Resource Dependence Perspective* Harper and Row, New York, NY, 1978.
75. Piaget, J. *To Understand is to Invent* The Viking Press, Inc, New York, NY, 1972.
76. Piaget, J. *The Development of Thought: Equilibration of Cognitive Structures* The Viking Press, Inc, New York, 1977.
77. Rijkma, J.A. "Complexity, Tight-Coupling and Reliability: Connecting Normal Accidents Theory and High Reliability Theory," *Journal of Contingencies and Crisis Management* (5:1) 1997, pp 15-23.
78. Shannon, C.E., and Weaver, W. *The Mathematical Theory of Communication* The University of Illinois Press, Urbana, IL, 1949.
79. Shen, S.Y., and Shaw, M.J. "Managing Coordination in Emergency Response Systems with Information Technologies," Tenth American Conference on Information Systems, New York, 2004, pp. 2110-2120.
80. Shen, S.Y., and Shaw, M.J. "Using Information Technology for Effective Emergency Response," International Business Research Forum 2005, Philadelphia, PA, 2005.

81. Sohlenkamp, M., Fuchs, L., and Genau, A. "Awareness and Cooperative Work: The POLITeam Approach," HICSS 30, IEEE Computer Society Press, Wailea, Hawaii, 1997, pp. 549-558.
82. Sweller, J. "Cognitive Load During Problem Solving: Effects on Learning," *Cognitive Science* (12) 1988.
83. Swets, J.A., and Pickett, R.M. *Evaluation of Diagnostic Systems: Methods from Signal Detection Theory* Academy Press, New York, NY, 1982.
84. Townsend, F.F. "The Federal Response to Hurricane Katrina Lessons Learned," T.W. House (ed.), The White House, Washington, DC, 2006.
85. Turoff, M. "Past and Future Emergency Response Information Systems," *Communications of the ACM* (45:4) 2002, pp 29-32.
86. Turoff, M., Chumer, M., Van de Walle, B., and Yao, X. "The Design of A Dynamic Emergency Response Management Information System (DERMIS)," *Journal of Information Technology Theory and Application* (5:4) 2004.
87. Turoff, M., Hiltz, S.R., Bieber, M., Whitworth, B., and Fjermestad, J. "Computer Mediated Communications for Group Support: Past and Future," in: *HCI in the New Mellennium*, J. Carroll (ed.), Addison Wesley, 2001.
88. Ulrich, D., and Barney, J. "Perspectives on Organizations: Resource Dependence, Efficiency and Population," *Academy of Management Review* (9:3) 1984.
89. Van de Walle, B., and Turoff, M. "Decision Support for Emergency Situations," in: *Handbook on Decision Support Systems*, F.B.a.C. Holsapple (ed.), Springer-Verlag, 2007a.
90. Van de Walle, B., and Turoff, M. "Emergency Response Information Systems: Emerging Trends and Technologies," *Communications of the ACM* (50:3) 2007b, pp 29-31.
91. Vogus, T.J., and Welbourne, T.M. "Structuring for High Reliability: HR Practices and Mindful Process in Reliability-Seeking Organizations," *Journal of Organizational Behavior* (24) 2003, pp 866-903.
92. Wallace, W.A., and Balogh, F.D. "Decision Support Systems for Disaster Management," *Public Administration Review* (45:Special Issue: Emergency Management: A Challenge for Public Administration) 1985.
93. Webb, E.J., Campbell, D.T., Schwartz, R.D., and Sechrest, L. *Unobtrusive Measures* Rand-McNally, Chicago, IL, 1965.
94. Wegner, D.M. "Transactive Memory: A Contemporary Analysis of the Group Mind," in: *Theories of Group Behavior*, B. Mullen and G.R. Goethals (eds.), Springer-Verlag, New York, NY, 1987.
95. Wegner, D.M., Giuliano, T., and Hertel, P. "Cognitive Interdependence in Close Relationships," in: *Comatible and Incompatible Relationships*, W.J. Ickes (ed.), Springer-Verlag, New York, NY, 1985.
96. Weick, K.E. "Enacted Sensemaking in Crisis Situations," *Journal of Management Studies* (25:4) 1988.
97. Weick, K.E., Sutcliffe, K.M., and Obstfeld, D. "Organizing for High Reliability: Processes of Collective Mindfulness," in: *Research in Organizational Behavior*, B.M.S.a.L.L. Cummings (ed.), JAI Press, Greenwich, CT, 1999, pp. 81-123.
98. Wikipedia "Common Operational Picture," 2008a.
99. Wikipedia "Sensemaking," 2008b.
100. Williams, C.B., Gogan, J.L., and Fedorowicz, J. "Public Safety and Cross-Boundary Data Sharing: Lessons from the CapWIN Project," *IEEE Computer* (38:12) 2005, p 28.

101. Wimberly, R. "How Quickly Can We Respond," *Occupational Health & Safety* (73:4) 2004, p 46.
102. Winter, F.W. "An Application of Computerized Decision Tree Models in Management-Union Bargaining," *Interfaces* (15) 1985.
103. Witten, I.H., Neal, R.M., and Cleary, J.G. "Arithmetic Coding for Data Compression," *Communication of ACM* (30:6) 1987.
104. Wong, C.Y., Johansen, J., and Hvolby, H.-H. "Supply Chain Coordination Problems: Literature Review," Center for Industrial Production, Aalborg University, Aalborg, Denmark, 2004.