

# Bibliography

- [1] Wd97: How word for windows uses temporary files. Microsoft Knowledge Base Article 89274, 1997. See url <http://support.microsoft.com/support/kb/articles/Q89/2/47.ASP> (downloaded 17 Oct 2004).
- [2] *Evidence*. Cavendish Publishing Limited, London, UK, 1998. ISBN 1-85941-428-1.
- [3] Digital evidence: Standards and principles. *Forensic Science Communications* 2, 2 (April 2000).
- [4] A roadmap for digital forensic research. Tech. rep., Digital Forensic Research Workshop, 2001. <http://www.dfrws.org/dfrws-rm-final.pdf> (downloaded 15 Oct 2002).
- [5] AITKEN, C. G. G. *Statistics and the Evaluation of Evidence for Forensic Scientists*. Statistics in Practice. John Wiley & Sons, Chichester, UK, 1995. ISBN 0-471-95532-9.
- [6] ALUR, R., AND DILL, D. L. A theory of timed automata. *Theor. Comput. Sci.* 126, 2 (1994), 183-235.
- [7] ANDERSON, M. R. Method and apparatus for identifying names in ambient computer data. United States Patent No. 6,263,349, July 2001.
- [8] ASSOCIATION OF CHIEF POLICE OFFICERS OF ENGLAND, WALES AND NORTHERN IRELAND. Good Practice Guide for Computer Based Evidence, Version 2. ACPO Crime Committee, London, UK, June 1999.

- [9] BATES, J. Blackmail: Case study. *International Journal of Forensic Computing*, 2 (1997).
- [10] BATES, J. Cluster analysis. *International Journal of Forensic Computing*, 6 (1997), 11–12.
- [11] BATES, J. The fundamentals of computer forensics. *International Journal of Forensic Computing*, 1 (1997), 4–5.
- [12] BATES, J. DIVA computer evidence. *International Journal of Forensic Computing*, 18 (June 1998), 19–22.
- [13] BENNER, L. Accident investigation: Multilinear event sequencing methods. *Journal of Safety Research* 7, 2 (1975), 67–73.
- [14] BENNER, L. Task guidance for bridging mes worksheet gaps with mes trees. Tech. rep., Starline Software, 2000.
- [15] BIERE, A., CIMATTI, A., CLARKE, E., AND ZHU, Y. Symbolic model checking without bdds. In *Proceedings of the Fifth International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS '99)* (London, UK, 1999), no. 1633 in Lecture Notes in Computer Science, Springer-Verlag, pp. 193–207.
- [16] BOIGELOT, P. W. B. On the construction of automata from linear arithmetic constraints. In *Tools and Algorithms for the Construction and Analysis of Systems: 6th International Conference, TACAS 2000* (2000), vol. LNCS 1785, Springer-Verlag Heidelberg, pp. 1–20. ISSN: 0302-9743.
- [17] BREZINSKI, D., AND KILLALEA, T. Guidelines for evidence collection and archiving. Internet Engineering Task Force, 2002. Request For Comments 3227.
- [18] BRYANT, R. E. Graph-based algorithms for Boolean function manipulation. *IEEE Transactions on Computers C-35*, 8 (August 1986), 677–691.

- [19] BRYSON, C., AND STEVENS, S. Tool testing and analytical methodology. In *Handbook of Computer Crime Investigation: Forensic Tools and Technology* (San Diego, CA, USA, 2002), E. Casey, Ed., Academic Press, pp. 53–71. ISBN 0–12–163103–6.
- [20] BULTAN, T., GERBER, R., AND LEAGUE, C. Verifying systems with integer constraints and boolean predicates: A composite approach. In *International Symposium on Software Testing and Analysis* (1998), pp. 113–123.
- [21] BURSTALL, R. M. Proving properties of programs by structural induction. *Computer Journal* 12, 1 (1969), 41–48.
- [22] CARRIER, B. Defining digital forensic examination and analysis tools using abstraction layers. *International Journal of Digital Evidence* 1, 4 (2002). Journal website <http://www.ijde.org/>.
- [23] CARROLL, L. *Alice’s Adventures in Wonderland and Through the Looking Glass*. Signet (Penguin group company), 375 Hudson St., New York, NY 10014, 2000. ISBN: 0451527747.
- [24] CASEY, E. Error, uncertainty, and loss in digital evidence. *International Journal of Digital Evidence* 1, 2 (2002). Journal website <http://www.ijde.org/>.
- [25] CASEY, E. *Digital Evidence and Computer Crime. Second edition*. Academic Press, San Diego, California, USA, 2004. ISBN 0–12–162885–X.
- [26] CHOI, Y., RAYADURGAM, S., AND HEIMDAHL, M. P. Automatic abstraction for model checking software systems with interrelated numeric constraints. In *Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering* (2001), ACM Press, pp. 164–174.

- [27] CLARKE, E. M., GRUMBERG, O., MINEA, M., AND PELED, D. State space reduction using partial order techniques. *Software Tools for Technology Transfer* 3, 1 (1999), 279–287.
- [28] CLARKE, E. M., GRUMBERG, O., AND PELED, D. *Model Checking*. MIT Press, Cambridge, MA, USA, 1999. ISBN 0–262–03270–8.
- [29] CLUGSTON, M. J., Ed. *The New Penguin Dictionary of Science*. Penguin Books, Ltd, London, UK, 1998. ISBN 0-14-051271-3.
- [30] Daubert v. Merrell Dow Pharmaceuticals Inc., 1993. See url <http://supct.law.cornell.edu/supct/html/92-102.Z0.html> (downloaded 17 Oct 2004).
- [31] DE VEL, O. File classification using byte sub-stream kernels. *Digital Investigation* 1, 2 (2004), 150–157.
- [32] DWYER, M. Tool-supported program abstraction for finite-state verification. In *Proceedings of the 23rd International Conference on Software Engineering* (2001), IEEE, pp. 177–187. ISBN: 0769510507.
- [33] EMERSON, E. A., AND HALPERN, J. Y. “sometimes” and “not never” revisited: on branching versus linear time temporal logic. *Journal of the ACM* 33, 1 (1986), 151–178.
- [34] FARMER, D. What are MACtimes? Powerful tools for digital databases. *Dr. Dobb’s Journal*, 10 (2000).
- [35] FARMER, D. Bring out your dead. the ins and outs of data recovery. *Dr. Dobb’s Journal*, 1 (2001).
- [36] GANNON, S., GLADYCHEV, P., AND PATEL, A. Extendible search utility for forensic computing. In *Proceedings of the World Multiconference on Systemics, Cybernetics and Informatics, and International Conference on Information Systems, Analysis and Synthesis (SCI 2001/ISAS 2001)* (Sheraton World, Orlando, FL, USA, 2001).

- [37] GANSNER, E., AND NORTH, S. C. An open graph visualization system and its applications to software engineering. *Software Practice and Experience* (1999).
- [38] GEORGE, E. UK computer misuse act — the trojan virus defence regina v aaron caffrey, southwark crown court, 17 october 2003. *Digital Investigation* 1, 2 (2004), 89–89.
- [39] GLADYSHEV, P., AND PATEL, A. Finite state machine approach to digital event reconstruction. *Digital Investigation* 1, 2 (2004), 130–149.
- [40] GODEFROID, P., AND WOLPER, P. A partial approach to model checking. In *Papers presented at the IEEE symposium on Logic in computer science* (1994), Academic Press, Inc., pp. 305–326.
- [41] HACHTEL, G. D., AND SOMENZI, F. *Logic Synthesis and Verification Algorithms*. Kluwer Academic Publishers, Boston, MA, USA, 1996. ISBN: 0792397460.
- [42] HONDERICH, T., Ed. *The Oxford Companion to Philosophy*. Oxford University Press, Oxford, UK, 1995. ISBN 0198661320.
- [43] HOPCROFT, J., AND ULLMAN, J. *Introduction to Automata Theory, Languages, and Computation*. Addison-Wesley, Reading, Massachusetts, 1979.
- [44] HUFFMAN, D. A. The synthesis of sequential switching circuits. *Journal of the Franklin Institute* 257, 3–4 (1954), 161–190 and 275–303.
- [45] HUME, D. *An Enquiry Concerning Human Understanding*. Oxford University Press, 1999 (originally published in 1748).
- [46] J.R. BURCH, E.M. CLARKE, K.L. McMILLAN, D.L. DILL, AND L.J. HWANG. Symbolic Model Checking:  $10^{20}$  States and Beyond. In *Proceedings of the Fifth Annual IEEE Symposium on Logic in Computer Science* (Washington, D.C., 1990), IEEE Computer Society Press, pp. 1–33.

- [47] KAUFMANN, M., MANOLIOS, P., AND MOORE, J. S. *Computer-Aided Reasoning: ACL2 Case Studies*. Kluwer Academic Publishers, Boston, MA, USA, 2000. ISBN 0-7923-7849-0.
- [48] KAUFMANN, M., MANOLIOS, P., AND MOORE, J. S. *Computer-Aided Reasoning: An Approach*. Kluwer Academic Publishers, Boston, MA, USA, 2000. ISBN 0-7923-7744-3.
- [49] KAUFMANN, M., AND MOORE, J. A precise description of the ACL2 logic. Tech. rep., Department of Computer Science, University of Texas at Austin, 1997.
- [50] KESTEN, Y., MALER, O., MARCUS, M., PNUELI, A., AND SHAHAR, E. Symbolic model checking with rich assertional languages. *Theoretical Computer Science* 256, 1-2 (2001), 93-112.
- [51] KLEENE, S. C. Representation of events in nerve nets and finite automata. In *Automata studies* (Princeton, New Jersey, U.S.A., 1956), Princeton University Press, pp. 3-42.
- [52] Kumho Tire Co. v. Carmichael, 1999. See url <http://supct.law.cornell.edu/supct/html/97-1709.ZS.html> (downloaded 17 Oct 2004).
- [53] LADKIN, P. Analysis of a technical description of the airbus A320 braking system. *High Integrity Systems* 1, 4 (1996).
- [54] LAMPORT, L. *Specifying systems: The TLA+ language and Tools for Hardware and Software Engineers*. Addison-Wesley, Boston, U.S.A., 2002. ISBN 0-321-14308-X.
- [55] LEWIS, D. Causation. *Journal of Philosophy* 70, 17 (1973), 556-557.
- [56] LEWIS, D. *Counterfactuals*. Basil Blackwell, Oxford, UK, 1973.
- [57] LOER, K. *Towards "Why...Because" Analysis of Failures*. PhD thesis, Universität Bielefeld, Germany, 1998.
- [58] LOER, K., AND LADKIN, P. *Why-Because Analysis: Formal Reasoning About Incidents*. Draft manuscript. See <http://www.rvs.uni-bielefeld>

- .de/publications/books/WBAbook/ (downloaded 9 Oct 2002).
- [59] LUQUE, M. E. Logical level analysis of unix systems. In *Handbook of Computer Crime Investigation: Forensic Tools and Technology* (San Diego, CA, USA, 2002), E. Casey, Ed., Academic Press, pp. 182–195. ISBN 0–12–163103–6.
- [60] LYLLE, J. J. Nist cftt: Testing disk imaging tools. *International Journal of Digital Evidence* 1, 4 (2002). Journal website <http://www.ijde.org/>.
- [61] MATTHEW B. GERBER, AND JOHN J. LEESON. Shrinking the ocean: Formalizing i/o methods in modern operating systems. *International Journal of Digital Evidence* 1, 2 (2002). Journal website <http://www.ijde.org/>.
- [62] MEALY, G. H. A method for synthesizing sequential circuits. *Bell System Technical Journal* 34, 5 (1955), 1045–1079.
- [63] MEYER, J.-J. C., WIERINGA, R., AND DIGNUM, F. The role of deontic logic in the specification of information systems. In *Logics for Databases and Information Systems* (1998), pp. 71–115.
- [64] MOORE, E. F. Gedanken experiments on sequential machines. In *Automata studies* (Princeton, New Jersey, U.S.A., 1956), Princeton University Press, pp. 129–153.
- [65] MORRIS, J. *Crime Analysis Charting – An Introduction To Visual Investigative Analysis*. Palmer Enterprises, Orangevale, CA, USA, 1988. ISBN 0–912–47901–9.
- [66] NASA OFFICE OF SAFETY AND MISSION ASSURANCE. *Formal Methods Specification and Analysis Guidebook for the Verification of Software and Computer Systems, Volumes I and II*. Washington, DC, May 1997.
- [67] OVERMAN, W. T. *Verification of concurrent systems: function and timing*. PhD thesis, Univeristy College of Los Angeles, 1981.

- [68] PATZAKIS, J. The encase process. In *Handbook of Computer Crime Investigation: Forensic Tools and Technology* (San Diego, CA, USA, 2002), E. Casey, Ed., Academic Press, pp. 53–71. ISBN 0–12–163103–6.
- [69] PELED, D. All from one, one for all: on model checking using representatives. In *Proceedings of the 5th International Conference on Computer Aided Verification* (1993), Springer-Verlag, pp. 409–423.
- [70] RABIN, M. O., AND SCOTT, D. Finite automata and their decision problem. *IBM Journal of Research and Development* 3, 2 (1959), 114–125.
- [71] REITH, M., CARR, C., AND GUNSCH, G. An examination of digital forensic models. *International Journal of Digital Evidence* 1, 3 (2002). Journal website <http://www.ijde.org/>.
- [72] ROMIG, S. Computer forensics investigations class handouts, 2000. See url [http://www.net.ohio-state.edu/security/talks/2000/2000-12-05\\_forensic-computer-investigations\\_lisa/forensics-6up.pdf](http://www.net.ohio-state.edu/security/talks/2000/2000-12-05_forensic-computer-investigations_lisa/forensics-6up.pdf) (downloaded 25 Oct 2002).
- [73] SCHNEIER, B. Attack trees. modelling security threats. *Dr. Dobb's Journal*, 12 (1999).
- [74] SHELDON, B. Forensic analysis of windows systems. In *Handbook of Computer Crime Investigation: Forensic Tools and Technology* (San Diego, CA, USA, 2002), E. Casey, Ed., Academic Press, pp. 53–71. ISBN 0–12–163103–6.
- [75] STEPHENSON, P. Modeling of post-incident root cause analysis. *International Journal of Digital Evidence* 2, 2 (2003). Journal website <http://www.ijde.org/>.
- [76] STEPHENSON, P. Putting the horse back in front of the cart. In *Proceedings of the Third Digital Forensic Research Workshop* (Portland, U.S.A, August 2003).



- [77] TURING, A. M. On computable numbers, with an application to the entscheidungsproblem. In *Proceedings of Proceedings of the London Mathematical Society* (London, U.K., 1936–1937), vol. 42, pp. 230–265.
- [78] VALMARI, A. A stubborn attack on state explosion. In *Proceedings of the 2nd International Workshop on Computer Aided Verification* (1991), Springer-Verlag, pp. 156–165.
- [79] VENEMA, W. File recovery techniques. wanted, dead or alive. *Dr. Dobb's Journal*, 12 (2000).
- [80] WEIL, M. C. Dynamic time & date stamp analysis. *International Journal of Digital Evidence* 1, 2 (2002). Journal website <http://www.ijde.org/>.
- [81] WHITCOMB, C. M. An historical perspective of digital evidence: A forensic scientist's view. *International Journal of Digital Evidence* 1, 1 (2002). Journal website <http://www.ijde.org/>.
- [82] WILDING, E. *Computer Evidence: a Forensic Investigations Handbook*. Sweet & Maxwell, 1997. ISBN 0-421-57990-0.
- [83] WU, S., AND MANBER, U. Agrep - a fast approximate pattern-matching tool. In *Proceedings of the Winter 1992 USENIX Conference* (San Francisco, USA, January 1991), pp. 153–162.