

Lionel E. Deimel

Selected Publications

Publications are listed by subject in reverse chronological order.

Computer Science/Software Engineering Education

Edu92a

Deimel, L. E., and K. R. Pierce. "Software Engineering for the Liberal Arts Environment." *Computer Science Education* 3, 2 (1992), 135–151.

Edu92b

Deimel, L. E., and L. J. Morell. *Unit Analysis and Testing*. Curriculum Module SEI-CM-9-2.0, Software Engineering Institute, Carnegie Mellon Univ., Pittsburgh, Pa., June 1992.

Edu91

Deimel, L. E. *Scenes of Software Inspections: Video Dramatizations for the Classroom*. Educational Materials CMU/SEI-91-EM-5, Software Engineering Institute, Carnegie Mellon Univ., Pittsburgh, Pa., May 1991. Includes 17-minute videotape.

Edu90

Deimel, L. E., ed. *Software Engineering Education: Proc. SEI Conf. 1990, Pittsburgh, Pennsylvania, USA, April 2–3, 1990*. Lecture Notes in Computer Science #423. Berlin: Springer-Verlag, 1990.

Edu89

Deimel, L. E. "Programming and Its Relation to Computer Science Education and Software Engineering Education." In *Software Engineering Education: Proc. SEI Conf. 1989, Pittsburgh, Pennsylvania, USA, July 18–21, 1989*, N. Gibbs, ed. Lecture Notes in Computer Science #376. Berlin: Springer-Verlag, 1989, 253–256.

Edu88

Deimel, L. E. "Problems from the 12th Annual ACM Scholastic Programming Contest." *ACM SIGCSE Bulletin* 20, 4 (Dec. 1988), 19–28.

Edu86

Deimel, L. E. "Effective Strategies for Taking the Advanced Placement Computer Science Test." *SIGCS Newsletter* 1, 1 (April 1986), 11–15.

Edu85

Deimel, L. E., and P. J. Ryan. "Contest Problems from the 1985 ACM Scholastic Programming Contest." *ACM SIGCSE Bulletin* 17, 4 (Dec. 1985), 83–91.

Edu84a

Deimel, L. E. "1984 ACM International Scholastic Programming Contest." *ACM SIGCSE Bulletin* 16, 3 (Sept. 1984), 7–12.

Edu84b

Deimel, L. E., D. V. Moffat, and J. Perry. "Implementation and Evaluation of a University Microcomputer Facility." *Proc. EdCompCon '84*. New York: IEEE, 1984, 45–51.

Edu83

Deimel, L. E., L. Hodges, and D. V. Moffat. "Restructuring the Introductory Programming Course." *AEDS Monitor* 21, 7–8 (Jan./Feb. 1983), 11–15.

Edu82a

Deimel, L. E. "CMS at North Carolina State University: Tailoring a Time Sharing System for Computer Science Instruction." *ACM SIGCSE Bulletin* 14, 1 (Feb. 1982), 43–49.

Edu82b

Deimel, L. E., and D. V. Moffat. "A More Analytical Approach to Teaching the Introductory Programming Course." *Proc. Nat'l. Educational Computing Conf.* Columbia, Mo.: The Curators of the Univ. of Mo., 1982, 114–118.

Edu81

DeCicco, J., and L. E. Deimel. *CMS for Beginners*. Computing Center, N.C. State Univ., Raleigh, N.C., 1981.

Edu79a

Deimel, L. E., and M. Pozefsky. "Implementation of Programming Standards in a Computer Science Department." *Proc. 17th Ann. SE Regional ACM Conf.* New York: ACM, 1979, 142–143.

Edu79b

Deimel, L. E., and M. Pozefsky. "Requirements for Student Programs in the Undergraduate Computer Science Curriculum: How Much is Enough?" *ACM SIGCSE Bulletin* 11, 1 (Feb. 1979), 14–17.

Edu78

Clarkson, B., and L. E. Deimel. "The TODISK-WATLOAD System: A Convenient Tool for Evaluating Student Programs." *Proc. 16th Ann. SE Regional ACM Conf.* New York: ACM, 1978, 168–171.

Program Reading/Program Comprehension

Read00

Deimel, L. E., and S. Rifkin. "Program Comprehension Techniques Improve Software Inspections: A Case Study." *Proc. 8th Intl. Workshop on Program Comprehension*. New York: IEEE, June 2000, 131–138.

Read95

Deimel, L. E., and S. Rifkin. "Applying Program Comprehension Techniques to Improve Software Inspections." *The Software Practitioner* 5, 3 (May–June 1995), 4–9.

Read90

Deimel, L. E., and J. F. Naveda. *Reading Computer Programs: Instructor's Guide and Exercises*. Educational Materials CMU/SEI-90-EM-3, Software Engineering Institute, Carnegie Mellon Univ., Pittsburgh, Pa., Aug. 1990. Includes original Ada program and exercises on diskette.

Read85a

Deimel, L. E. "The Uses of Program Reading." *ACM SIGCSE Bulletin* 17, 2 (June 1985), 5–14.

Read85b

Deimel, L. E., L. Kunz, L. Makoid, and J. Perry. "The Effects of Comment Placement and Reading Times on Program Reading Comprehension." *Proc. 19th Ann. Conf. on Info. Sciences & Systems*. Baltimore: Dept. of Electrical Engineering & Computer Science, The Johns Hopkins Univ., 1985, 595–601.

Read85c

Deimel, L. E., and L. Makoid. "Developing Program Reading Comprehension Tests for the Computer Science Classroom." *Computers in Education: Proc. IFIP TC 3 4th World Conf. on Computers in Education—WCEE 85, Norfolk, VA, USA, July 29–August 2, 1985*. Amsterdam: North-Holland, 1985, 535–540.

Read84

Deimel, L. E., and L. Makoid. "Measuring Program Reading Comprehension: The Search for Methods." *NECC '84: 6th Ann. Nat'l. Educational Computing Conf.* Dayton, Ohio: Univ. of Dayton, 1984, 142–146.

Read83

Deimel, L. E., P. Koltun, and J. Perry. "Progress Report on the Study of Program Reading." *ACM SIGCSE Bulletin* 15, 1 (Feb. 1983), 168–176.

Read82

Deimel, L. E., and D. V. Moffat. "More on Natural Language and Programming Skills." *Comm. ACM* 25, 7 (July 1982), 501.

Systems

Syst94

Deimel, L. E. "Managing DOS 6 Multiple Configurations." *Gateway 2 The Mauve Forest* (Gateway 2000 user's group magazine) 1, 4 (September 1994), 9–10.

Syst83

Deimel, L. E., D. F. McAllister, and R. J. Fornaro. "Distributed Computing Systems: Methodology and Case Study." In *Advances in Distributed Processing Management, Volume 2*, P. S. Fisher, J. Slinim, and E. A. Unger, eds. Chichester, England: Wiley Heyden Ltd., 1983, 93–116.

Syst80a

Deimel, L. E., *et al.* "A Case Study of a Distributed System Design." *Proc. Comcon Fall 80: Distributed Computing*. New York: IEEE, 1980, 636–642.

Syst80b

Deimel, L. E., *et al.* "A Top-Down Approach to the Use of Simulation in Computer System Design." *Proc. 1980 Summer Computer Simulation Conf.* La Jolla, Calif.: Society for Computer Simulation, 1980, 89–93.

Syst78

Deimel, L. E., and R. J. Fornaro. "The Edit Processor Component of IPIN." *Proc. Digital Terrain Models (DTM) Symp.* Falls Church, Va.: American Society of Photogrammetry, 1978, 481–492.

Numerical Methods

Num82

Deimel, L. E., R. J. Fornaro, and D. F. McAllister. "Techniques for Computerized Lake and River Fills in Digital Terrain Models." *Photogrammetric Engineering & Remote Sensing* 38, 9 (Sept. 1982), 1431–1436.

Num78a

Deimel, L. E., *et al.* “Application of Shape-Preserving Spline Interpolation to Interactive Editing of Photogrammetric Data.” *Computer Graphics* 12, 3 (Aug. 1978), 93–99.

Num78b

Deimel, L. E., D. F. McAllister, and J. Roulier. “Smooth Curve Fitting with Shape Preservation Using Osculatory Quadratic Splines.” *Proc. Computer Science and Statistics: Eleventh Ann. Symp. on the Interface*. Raleigh, N.C.: Institute of Statistics, N.C. State Univ., 1978, 343–347.

Algorithms and Computation

Algorith82a

Deimel, L. E., and M. T. Jones. “Digital Invariants.” *J. Recreational Math.* 14, 4 (1981–1982), 284.

Algorith82b

Deimel, L. E., and M. T. Jones. “Finding Pluperfect Digital Invariants: Techniques, Results and Observations.” *J. Recreational Math.* 14, 2 (1981–1982), 87–108.

Algorith80a

Deimel, L. E. “On a Matrix Chain Product Algorithm.” *Comm. ACM* 23, 5 (May 1980), 301.

Algorith80b

Deimel, L. E., and T. A. Lampe. “An Improved $O(n)$ Algorithm for Determining Near-Optimal Computation Orders of Matrix Chain Products.” *Proc. 1980 Conf. on Info. Sciences & Systems*. Princeton, N.J.: Dept. of Electrical Engineering & Computer Science, Princeton Univ., 1980, 559–564.

Algorith79

Deimel, L. E., and T. A. Lampe. “A Heuristic for Optimizing the Multiplication of Matrix Chains.” *Proc. 17th Ann. SE Regional ACM Conf.* New York: ACM, 1979, 142–143.

Automata Theory

Automata76

Deimel, L. E., W. I. Grosky, and J. Gwynn. “Real-Time Multicounter Automata Networks.” *Proc. 1976 Conf. on Info. Sciences & Systems*. Baltimore: Dept. of Electrical Engineering, The Johns Hopkins Univ., 1976, 439–443.

Automata75

Deimel, L. E. *Real-Time Multipushdown and Multicounter Automata Networks and Hierarchies*. Ph.D. Th., School of Information and Computer Science, Ga. Inst. of Tech., Atlanta, Ga., Aug. 1975.

Automata74

Deimel, L. E. “Remark on the Computational Power of a Turing Machine Variant.” *Information Processing Letters* 3, 2 (Nov. 1974), 43–45.

Miscellaneous

Misc06a

Deimel, L. E., and C Wells. “The Church Faces a Foreign Policy Challenge.” *The Living Church* 233, 11 (Sept. 10, 2006), 44–45.

Misc06b

Deimel, L. E. *An Appraisal of the Diocese of Pittsburgh's "Withdrawal" of Consent to Inclusion in Province III*. Progressive Episcopalians of Pittsburgh, Pittsburgh, Pa., July 2006.

Misc06c

Deimel, L. E. *Saving Anglicanism: An Historical Perspective on Decisions Facing the 75th General Convention of the Episcopal Church*. Pittsburgh, Pa., May 2006.

Misc06d

Deimel, L. E. *What Should General Convention 2006 Do? Commentary on the Resolutions Proposed by the Special Commission on the Episcopal Church and the Anglican Communion*. Progressive Episcopalians of Pittsburgh, Pittsburgh, Pa., May 2006.

Misc06e

Deimel, L. E. "A Collect for Unity." The Anglican Communion Official Website: The Anglican Cycle of Prayer, <http://www.anglicancommunion.org/acp/index.cfm?year=2006&month=1&day=15> (accessed July 11, 2007) and <http://www.anglicancommunion.org/acp/index.cfm?year=2007&month=1&day=15> (accessed July 11, 2007).

Misc04

Deimel, L. E. "Property Constraints." *The Living Church* 229, 10 (Sept. 5, 2004), 38–39.

Misc00

Deimel, L. E. Lionel Deimel's Farrago, <http://www.deimel.org>, 2000–present.

Misc93

Deimel, L. E. "Construction Update Bulletin Board: A New Model for Parish Communication." *Congregations: The Alban J.* 19, 1 (Jan./Feb. 1993), 12–15.