

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., Jun. 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 (Apr. 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, Jun. 2000, 131–138.

Read95

Deimel, L. E., and S. Rifkin. "Applying Program Comprehension Techniques to Improve Software Inspections." *The Software Practitioner 5*, 3 (May–Jun. 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 (Jun. 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 (Jul. 1982), 501.

Systems

Syst94

Deimel, L. E. "Managing DOS 6 Multiple Configurations." *Gateway 2 The Mauve Forest* 1, 4 (Sept. 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

Misc09a

Deimel, L. E. “Hail Barack Obama.” Poem in “News Muse.” *Pittsburgh Post-Gazette*, Jan. 21, 2009, A-2, final edition.

Misc09b

Deimel, L. E. “Re-Established Pittsburgh Diocese Convenes.” *The Living Church* 238, 1 (Jan. 4, 2009), 19.

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., Jul. 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 Feb. 26, 2009) and <http://www.anglicancommunion.org/acp/index.cfm?year=2007&month=1&day=15> (accessed Feb. 26, 2009).

Misc04

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

Misc02

Deimel, L. E. "Lionel Deimel's Web Log," <http://blog.deimel.org>, 2002–present.

Misc00

Deimel, L. E. "Lionel Deimel's Farrago," <http://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.