

Peter Grogono — Publications

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1 Bibliography

1.1 Books (7)

- [1] Andrew Black, Erich Ernst, Peter Grogono, and Markku Sakkinen, editors. *The Inheritance Workshop at ECOOP 2002*. University of Jyväskylä, June 2002.
- [2] Peter Grogono. *The Evolution of Programming Languages*. Jyväskylä Summer School 1999, University of Jyväskylä, Finland, August 1999.
- [3] Peter Grogono. *Programming with Turing and Object Oriented Turing*. Springer-Verlag, June 1995.
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1.2 Book Chapters (1)

- [1] Peter Grogono. Software engineering for expert systems. In Jay Liebowitz, editor, *The Handbook of Applied Expert Systems*, chapter 25. CRC Press LLC, 1997.

1.3 Refereed Journals (12)

- [1] Jane Yao, Nawwaf Kharma, and Peter Grogono. A bi-objective multi-population genetic algorithm for multi-modal function optimization. *IEEE Transactions on Evolutionary Computation*. In press.

- [2] Jie Yao, Nawwaf Kharma, and Peter Grogono. A bi-objective multi-population genetic algorithm for multi-modal function optimization. *IEEE Transactions on Evolutionary Computation*, 2008. In press.
- [3] Jie Yao, Nawwaf Kharma, and Peter Grogono. A multi-population genetic algorithm for robust and fast ellipse detection. *Pattern Analysis and Applications*, 8(1–2):149–162, April 2005. (This paper won a \$1,000 “human-competitive” award at GECCO’06.).
- [4] Greg Butler, Andrea Gantchev, and Peter Grogono. Object-oriented design of the subsumption architecture. *Software: Practice and Experience*, 31:911–923, 2001.
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- [6] Peter Grogono, Alun Preece, Rajjan Shinghal, and Ching Y. Suen. A survey of evaluation techniques for expert systems in telecommunications. *Expert Systems with Applications (US)*, 5:395–401, 1992.
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- [9] Aida Batarekh, Alun Preece, Anne Bennett, and P. Grogono. Specifying an expert system. *Expert Systems with Applications (US)*, 2(4):285–303, 1991.
- [10] Ching Y. Suen, Peter Grogono, Rajjan Shinghal, and F. Coallier. Verifying, validating, and evaluating the performance of expert systems. *Expert Systems with Applications (US)*, 1(2):93–102, June 1990. Invited paper.
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- [12] Peter Grogono. MUSYS: software for an electronic music studio. *Software: Practice and Experience*, 3(4):369–83, 1973.

1.4 Refereed Conferences (71)

- [1] Miao Song and Peter Grogono. Are haptics-enabled interactive and tangible cinema, documentaries, 3D games, and specialist training applications our future? In *International Conference on Computer Graphics Theory and Applications*, February 2009.
- [2] Miao Song and Peter Grogono. A LOD control interface for an OpenGL-based softbody simulation framework. In *International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering*, December 2008. Online presentation.
- [3] Yingying She and Peter Grogono. Goal oriented behaviour trees: a new strategy for controlling agents in games. In *Proceeding of ACM Future Play 2008*, pages 256–7, November 2008.
- [4] Peter Grogono. Glorious accidents or expected results? In *1st Annual North American Simulation Technology Conference (NASTECH 2008)*, pages 9–10, August 2008. Invited keynote.
- [5] Yingying She and Peter Grogono. The procedural planning system used in the agent architecture of games. In *GAMEON-NA’08*, pages 108–12, August 2008.
- [6] Nurudeen Lameed and Peter Grogono. Separating program semantics from deployment. In *3rd International Conference on Software and Data Technologies (ICSOF 2008)*, pages 63–70, July

2008.

- [7] Peter Grogono and Brian Shearing. Modular concurrency: a new approach to manageable software. In *3rd International Conference on Software and Data Technologies (ICSOFT 2008)*, pages 47–54, July 2008.
- [8] Miao Song and Peter Grogono. A framework for dynamic deformation of uniform elastic two-layer 2D and 3D objects in OpenGL. In *Canadian Conference on Computer Science & Software Engineering (C³S²E'08)*, pages 145–158, May 2008.
- [9] Peter Grogono and Brian Shearing. Concurrent software engineering: Preparing for paradigm shift. In *Canadian Conference on Computer Science & Software Engineering (C³S²E'08)*, pages 99–108, May 2008.
- [10] Taras Kowaliw, Peter Grogono, and Nawwaf Kharmah. Environment as a spatial constraint on the growth of structural form. In *GECCO '07: Proceedings of the 9th Annual Conference on Genetic and Evolutionary Computation*, pages 1037–1044, July 2007.
- [11] Taras Kowaliw, Peter Grogono, and Nawwaf Kharmah. The evolution of structural design through artificial embryogeny. In *First IEEE Symposium on Artificial Life*, April 2007.
- [12] J. Yao, N. Kharmah, and P. Grogono. *To share or not to share: towards a genetic algorithm based approach to effective multi-modal function optimization*, July 2006.
- [13] J. Yao, N. Kharmah, and P. Grogono. BMPGA: A bi-objective multi-population genetic algorithm for multi-modal function optimization. In *2005 IEEE Congress on Evolutionary Computation*, September 2005.
- [14] J. Yao, N. Kharmah, and P. Grogono. Extracting multiple optima in continuously differentiable multi-modal functions using a bi-objective multi-population genetic algorithm. In *2005 IEEE Congress on Evolutionary Computation*, September 2005.
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- [16] J. Yao, N. Kharmah, and P. Grogono. Fast robust GA-based ellipse detection. In *17th International Conference on Pattern Recognition (ICPR 2004)*, pages 859–862, August 2004.
- [17] Joey Paquet, Aihua Wu, and Peter Grogono. Towards a framework for the general intensional programming compiler in the GIPSY. In *OOPSLA '04: Companion to the 19th annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications*, pages 164–165. ACM Press, 2004.
- [18] Susan Khor and Peter Grogono. Using a genetic algorithm and formal concept analysis to generate branch coverage test data automatically. In *Automated Software Engineering Conference (ASE 2004)*, pages 346–349, September 2004. Short paper.
- [19] Taras Kowaliw, Peter Grogono, and Nawwaf Kharmah. Bluenome: A novel developmental model of artificial morphogenesis. In *Genetic and Evolutionary Computation Conference (GECCO 2004)*, pages 93–104, June 2004.
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- [37] Patrice Chalin, Peter Grogono, and T. Radhakrishnan. Identification of and solutions to shortcomings of LCL, a Larch/C interface specification language. In Marie-Claude Gaudel and James Woodcock, editors, *FME'96: Industrial Benefit and Advances in Formal Methods*, pages 385–404, March 1996. Published as LNCS 1051 by Springer-Verlag.
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- [41] Peter Grogono and Patrice Chalin. Copying, sharing, and aliasing. In *Colloquium on Object Orientation in Databases and Software Engineering (ACFAS'94)*, Montreal, Quebec, May 1994.
- [42] Peter Grogono, Alun Preece, Rajjan Shinghal, and Ching Y. Suen. Building expert systems: from specification to evaluation. In *World Congress on Expert Systems*, pages 287–292, Lisbon, Portugal, January 1994.
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- [45] Peter Grogono, Gary M. Boyd, P. David Mitchell, and Vladimir Zeman. Computer aided instruction considered harmful. In *Tenth International Conference on Technology and Education*, March 1993.
- [46] Vladimir Zeman, Peter Grogono, P. David Mitchell, and Gary M. Boyd. Perspective pluralism vs canon: On the necessity of creating diverse viewpoints. In *Tenth International Conference on Technology and Education*, March 1993.
- [47] Vladimir Zeman, P. David Mitchell, Peter Grogono, and Gary M. Boyd. Multiple knowledge representations in interactive instruction. In *Proceedings Ninth International Conference on Technology and Education, Paris*, pages 138–140, March 1992.
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- [54] Aida Batarekh, Alun Preece, Anne Bennett, and Peter Grogono. Specification of expert systems. In A. Dollas, W. Tsai, and N. Bourbakis, editors, *Proceedings of Second International Conference on Tools for Artificial Intelligence (TAI-90)*, pages 103–109. (IEEE, Washington DC), IEEE, November 1990.
- [55] Patrice Chalin and Peter Grogono. Z specification of an object manager. In D. Bjørner, C.A.R. Hoare, and H. Langmaack, editors, *Proceedings of the Symposium on VDM and Z: Formal Methods in Software Development*, volume 428 of *Lecture Notes in Computer Science*, pages 41–71. Springer, April 1990.
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- [59] Mitsuhiro Okada and Peter Grogono. Practical applications of term rewriting systems. In *Proceedings IX International Conference Chilean Computer Science Society and XV Latin American Conference on Informatics*, Santiago, Chile, 1989.
- [60] Peter Grogono. Myths and realities in the nuclear age. In *Conference on Science, Sanity, and Global Responsibility*, Brock University, Canada, 1988. Invited paper.
- [61] Peter Grogono, Anne Bennett, Chris Coyle, Nikos Leoutsarakos, Adam Steele, and Dimitri Vouliouris. Equilibrium programming. In *Proceedings Canadian Information Processing Society Edmonton '88 Conference*, pages 257–262, Edmonton, Alberta, Canada, 1988.
- [62] Peter Grogono and Nikos Leoutsarakos. Beyond undo: the software time machine. In *Proceedings Canadian Information Processing Society Edmonton '88 Conference*, pages 274–284, Edmonton, Alberta, Canada, 1988.
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- [71] Peter Grogono. The Pascal perspective. In *Languages and Tools for Microcomputing*, New York, NY, May 1980. BYTE.

1.5 Unrefereed Contributions (14)

- [1] Peter Grogono. Book review: Visual basic professional 3.9 programming by thomas w. torgerson. *SIGPLAN Not.*, 30(4):9, April 1995.
- [2] Yongsheng Zhou. Computational wind engineering — a new branch of CFD. *undisciplined: an interdisciplinary journal*, 1(1):47–73, 1994. Critical response by P.G.
- [3] Peter Grogono and Mark Gargul. A graph model for object oriented programming. *ACM SIGPLAN Notices*, 29(7):21–28, July 1994.
- [4] Peter Grogono. Virtues of Reality. *Matrix*, 41:62–65, Fall 1993. Short story.
- [5] Chris Coyle and Peter Grogono. Building abstract iterators using continuations. *ACM SIGPLAN Notices*, 26(2):17–24, February 1991.
- [6] Peter Grogono. Comments, assertions, and pragmas. *ACM SIGPLAN Notices*, 24(3):79–84, March 1989.
- [7] Peter Grogono. Meaning and process in mathematics and programming. *For the Learning of Mathematics*, 9(1):14–19, 1989.
- [8] Peter Grogono and Anne Bennett. Polymorphism and type checking in object-oriented languages. *ACM SIGPLAN Notices*, 24(11):109–115, November 1989.
- [9] Peter Grogono. Functional, logic, and database programming combined: an introduction to Trilogy. *Computer Language*, 5(4):83–89, 1988.
- [10] Peter Grogono. SDI software. *Globe and Mail, Toronto*, 1987.

- [11] Peter Grogono. State and process. *Computers in Schools*, 3(5):18–20, 1981. Invited paper.
- [12] Peter Grogono. Case statements and related topics. *BYTE*, 4(10):178–82, October 1979.
- [13] Peter Grogono. Mouse: A language for microcomputers. *BYTE*, 4(7):198–220, July 1979.
- [14] Peter Grogono. On layout, identifiers, and semicolons in Pascal programs. *ACM SIGPLAN Notices*, 14(4):35–40, 1979.

1.6 Invited Talks (35)

- [1] Peter Grogono. Living with concurrency. Keynote Speech for Concordia Undergraduate Software Engineering Conference (CUSEC 2008), January 2008.
- [2] Peter Grogono. Ports, protocols, and processes: a programming paradigm?, November 2007. Invited talk for the Advanced Programming Languages Study Group of the British Computer Society.
- [3] Peter Grogono. Complexity in systems and software, April 2007. Invited talk for IEEE Computer Society (Montreal chapter).
- [4] Peter Grogono. Modular concurrency. Keynote Speech for Canadian University Software Engineering Conference (CUSEC) 2006, January 2006.
- [5] Peter Grogono. Think computationally, act locally. Panel at International Joint Conference on Neural Networks, Montreal, August 2005.
- [6] Peter Grogono. Laws and life. Invited Talk for ECSA Artificial Intelligence Symposium, Concordia University, March 2004.
- [7] Peter Grogono. Necessary and sufficient conditions for quality. Banquet Speech for Concordia Undergraduate Software Engineering Conference (CUSEC 2004), January 2004.
- [8] Peter Grogono. Laws and Life. In *Second Annual Faculty Research Colloquium, Faculty of Engineering and Computer Science, Concordia University*, March 2003.
- [9] Peter Grogono. Professors, prophets, and provocateurs: from prototype via program to product. Keynote Speech for Concordia Undergraduate Software Engineering Conference (CUSEC 2003), January 2003.
- [10] Peter Grogono. C++ — paradise or nemesis? Invited talk at *Université du Québec à Montréal*, November 2002.
- [11] Peter Grogono. Changing software engineering. Keynote Speech for Concordia Undergraduate Software Engineering Conference (CUSEC 2002), March 2002.
- [12] Peter Grogono. Messy solutions for messy problems, June 1997. Invited presentation for Second ECOOP Workshop on prototype-based object-oriented programming, *11th European Conference on Object Oriented Programming*, Jyväskylä, Finland.
- [13] Peter Grogono. Are educators ready for objects?, July 1996. Educator’s Symposium at *10th European Conference on Object-Oriented Programming*, Linz, Austria.
- [14] Peter Grogono (moderator), Ernst-Erich Doberkat, Adele Goldberg, Rick Mercer, and Linda Northrop. Object oriented programming in introductory courses, July 1996. Panel session at *10th European Conference on Object-Oriented Programming*, Linz, Austria.
- [15] Peter Grogono. The future of programming, November 1995. Seminar for Department of Computer Science, Concordia University.

- [16] Peter Grogono. The internet, October 1995. Seminar for Alumni Association at *Homecoming 1995*.
- [17] Peter Grogono. Encouraging classroom discussion, September 1995. Seminar for Workshop on Teaching, Centre for Teaching and Learning Studies, Concordia University.
- [18] Peter Grogono. A graph model for object oriented programming, May 1995. Seminar for Department of Computer Science, Brown University.
- [19] Peter Grogono. From snapshots to photographs, April 1995. Seminar for Alumni Association.
- [20] Peter Grogono. The essence of objects, October 1994. Seminar for Department of Computer Science, Concordia University.
- [21] Jack Fearnley and Peter Grogono. Cruising the superhighway, October 1994. Seminar for Alumni Association at *Homecoming 1994*.
- [22] Peter Grogono. Designing for change. In *CASCON'94*, November 1994. Invited workshop presentation.
- [23] J. William Atwood and Peter Grogono. The electronic superhighway, February 1994. *Workshop on Electronic Communication*, Department of Philosophy, Concordia University.
- [24] Peter Grogono. Enhancing the role of the programming language in software development, March 1993. Invited talk for *Workshop on Computer Algebra Tools for Handling Ordinary Differential Equations*, Han sur Lesse, Belgium.
- [25] Peter Grogono. The design of an object oriented programming language, April 1990. Seminar for Computer Science Department, Université de Montréal.
- [26] Peter Grogono. The role of inheritance in object-oriented programming, May 1989. Seminar on Object-Oriented Databases, 57th ACFAS Congress, Université de Québec à Montréal.
- [27] Peter Grogono. Multiple inheritance, April 1989. Seminar for Department of Mathematics and Computer Science, Université de Québec à Montréal.
- [28] Peter Grogono. The strategic defense initiative, July 1988. Panel Discussion, Conference on Science, Sanity, and Global Responsibility, Brock University, Canada.
- [29] Peter Grogono. Real-time functional programming, March 1987. Seminar for Department of Computer Science, Bishop's University.
- [30] Peter Grogono. Real-time functional programming, March 1987. Seminar for Department of Computer Science, UBC.
- [31] Peter Grogono. SDI software, February 1986. McGill University.
- [32] Peter Grogono. Program the computer, not the child, March 1985. Department of Mathematics, Concordia University.
- [33] Peter Grogono. A system development language for microcomputers, March 1984. IFIP WG 2.4, Pittsburgh, Pennsylvania.
- [34] Peter Grogono. Proposal for a typed, applicative programming environment, May 1983. IFIP WG 2.1, Munich, Bavaria.
- [35] Peter Grogono. Extensions to Pascal for combinatorial computing on a multiprocessor, March 1983. Invited talk for IFIP WG 2.4, Tempe, Arizona.

1.7 Student Theses (65)

- [1] Sibó Yao. Dynamic terrain. Master's thesis, Department of Computer Science, Concordia University, February 2009.
- [2] Susan Khor Lay Choo. *Problem Structure and Evolutionary Algorithm Difficulty*. PhD thesis, Department of Computer Science, Concordia University, September 2008.
- [3] Jie Yao. *A Bi-objective Multi-population Genetic Algorithm with Applications to Function Optimization and Ellipse Detection*. PhD thesis, Department of Computer Science, Concordia University, March 2008. Co-supervised with Nawwaf Kharma.
- [4] Yang Lu. 3D real-time nonlinear perspective projection and simulation of wide-angle lens distortion. Master's thesis, Department of Computer Science, Concordia University, March 2008.
- [5] Nurudeen Lameed. Implementing concurrency in a process-based language. Master's thesis, Department of Computer Science, Concordia University, March 2008.
- [6] Nima Jafroodi. A type system for the Erasmus language. Master's thesis, Department of Computer Science, Concordia University, January 2008.
- [7] Khaled Abdelhay. 3D character animation using geometric constraints. Master's thesis, Department of Computer Science, Concordia University, January 2008.
- [8] Taras Kowaliw. *A Good Number of Forms Fairly Beautiful: An Exploration of Biologically-Inspired Automated Design*. PhD thesis, Department of Computer Science, Concordia University, September 2007. Co-supervised with Nawwaf Kharma.
- [9] Miao Song. Dynamic deformation of uniform elastic two-layer objects. Master's thesis, Department of Computer Science, Concordia University, July 2007.
- [10] Nicolas Brodu. *Practical Investigations of Complex Ssystems*. PhD thesis, Department of Computer Science, Concordia University, June 2007.
- [11] Luu Huy Danh Vo. Investigation into the simulation of cloth. Master's thesis, Department of Computer Science, Concordia University, October 2006.
- [12] Li Han. Planning camera motion in a 3D environment. Master's thesis, Department of Computer Science, Concordia University, April 2006.
- [13] Ying Ying She. Real-time animation of walking and running using inverse kinematics. Master's thesis, Department of Computer Science, Concordia University, April 2006.
- [14] Rui Bi. Squash ball simulation in OpenGL. Master's thesis, Department of Computer Science, Concordia University, September 2005.
- [15] Ce Guan. A Java-based DVI file reader. Master's thesis, Department of Computer Science, Concordia University, September 2005.
- [16] Patrick Chui. Graph model for object oriented programming languages. Master's thesis, Department of Computer Science, Concordia University, September 2005.
- [17] Qiao Li. XML-Based context maps and CMapView application. Master's thesis, Department of Computer Science, Concordia University, August 2005. Co-supervised with Wojciech Jaworski.
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