

CV OF 3/8/08

Ronald Prescott Loui

Associate Professor of Computer Science and Engineering

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Education

Harvard. B.A. *m.c.l.* 1982. Applied Mathematics: Decision and Control (operations research). (3 years)

University of Rochester. M.S. 1985. Computer Science. Ph.D. 1987. Computer Science and Philosophy. Cognitive Science. (5 years)

Academic Posts

Stanford. Postdoctoral Affiliate, Cognitive Science Program. 1987-1988. Loosely affiliated with CS, CSLI and SRI. (1 year)

Washington University in St. Louis. Currently Associate Professor of Computer Science in the School of Engineering. 1988-present, tenured in 1994. Affiliated with research centers (AI, Computational Intelligence, Semantic Control, and Semantic Network Hardware) and academic programs (Legal Studies/History, Linguistics, and Philosophy). (19 years)

Research Areas Publishes mainly in artificial intelligence (reasoning, representation, decision, applied data mining, ai and law), but has broad interests including e-government; scripting language design and performance; web 2.0 and webserver performance; search engines, webcrawlers, and databases; heuristics for reprogrammable hardware; knowledge mining and discovery, machine learning, optimization, risk analysis; multiagent systems and negotiation, semantic web, ecommerce; philosophy of computing, philosophy of economics, philosophy of law, philosophy of science; philosophy of ai, intellectual history, and history of technology.

Citation databases identify main papers as: optimal paths in stochastic graphs, logic of arguments/mathematics of defeasible reasoning, and fpga-based deep-packet content-firewall.

Latest funded project was for high speed datamining of data streams and hardware-based machine translation of foreign languages, real-time classification of images and documents, and hardware-assisted automatic discovery. That work supported national intelligence research, development, and operations.

Research Supervision Has supervised dozens of undergraduate independent study research projects, dozens of high school summer research projects, and dozens of visiting summer undergraduate students. Has supervised hundreds of exploratory software projects in design courses at the graduate and undergraduate level.

Doctoral Thesis Students

Guillermo Simari, D.Sc. Computer Science, 1990. Mathematics of Defeasible Reasoning and Its Implementation. Faculty at Universidad Nacional del Sur, Argentina. Nominated for the ACM dissertation award.

Gadi Pinkas, D.Sc. Computer Science, 1992. Inference in Symmetric Connectionist Networks. External advisor D. Touretzky. Program Manager at Amdocs, Israel. Nominated for the ACM dissertation award.

Moshe Looks, Ph.D. Computer Science, 2007. Competent Program Evolution. External advisors D. Goldberg, B. Goertzel, and M. Pelikan. Also M.Sc., 2005, Program Learning with the Bayesian Optimization Algorithm. Google Research. Nominated for the IEEE dissertation award.

Also seventeen doctoral committee memberships (including Mathematics, Systems Engineering, Electrical Engineering, Earth and Planetary Science).

External Thesis Students and Postdoctoral Visitors

Gerard Vreeswijk, Ph.D. Computer Science, Vrije Universiteit Amsterdam, Netherlands, 1993. Faculty at Universiteit Utrecht, Netherlands.

Fernando Tohmé, Ph.D. Dept. of Economics, Universidad Nacional del Sur, Argentina. 1996 and 1997. Faculty at Universidad Nacional del Sur, Argentina.

Bart Verheij, Ph.D. Dept. of Metajuridica, U. of Limburg, Netherlands. 1996. Faculty at U. of Groningen, Netherlands.

Also doctoral dissertation opponent or external committee member: Peter Eklund, U. of Linköping, Sweden, George Ferguson, U. of Rochester, Pawan Kumar, IIT-Kanpur, India, Arno Lodder, U. of Limburg, Netherlands; some external master's committees. Andrew Levine, Master's thesis. Diana Moore and Ben Weber, Bachelor's theses.

Funding

Applied Research. Grants of \$563k, and \$859k as co-PI (\$1.4M) for work on software-hardware co-design for OC-48 and OC-192 document clustering and classification in multiple languages, sponsored by Global Velocity and SAIC. 2004-2006.

Fundamental Research. Grants of \$199k, \$120k, and \$109k as PI and co-PI (\$428k) for work on models of negotiation and argumentation, sponsored by NSF. 1990-1992, 1995-1997, 1997-2001.

Research Education. Grants of \$84k, \$110k, \$35k, and \$35k as PI and co-PI for summer research experiences for undergraduates (REU), sponsored by NSF, and \$4k and \$3k supplements. 1990-1991, 1991, 1991-1992, 1992-1994, 1995-1996, 1997. Hardware donations of approximate \$5k value from alumni. (\$276k)

Research Symposia. Support of \$10k, \$3k, \$3k and \$2k (\$18k) from various sources for funding of academic symposia.

Industry Consulting and Internships

Global Velocity St. Louis: streaming AI on network fpga's, 2001-06.
Streamsearch.com St. Louis: webserver log analysis and usability, 2000.
Southwestern Bell/TRI St. Louis: call center expert systems, 1990-92.
McDonnell-Douglas St. Louis: real-time path replanning, 1989.
Xerox PARC and Webster: device diagnostics and prediction, 1988.
Rockwell Palo Alto: evidential reasoning, 1988.
DEC Hudson: internet topology simulation and optimization, 1982.

Patent

J. Lockwood, M. Pachos, J. Moscola, and R. Loui. U.S. Patent application 5/21/02, 53047/9014 *Methods, Systems, and Devices Using Reconfigurable Hardware for High-Speed Processing of Streaming Data to Find a Redefinable Pattern and Respond Thereto*. Issued 8/15/06 as U.S. 7093023. Intellectual property basis for two licensing agreements.

Publications on Streaming AI, Classification and Clustering

A. Ratner and R. Loui. High speed identification of language and script, Workshop on Data Stream Mining and Management DSMM, at *IEEE International Conference on Data Mining*, 2007.

M. Looks, A. Levine, G. A. Covington, R. P. Loui, J. W. Lockwood, Y. H. Cho. Streaming hierarchical clustering for concept mining, *IEEE Aerospace Conference*, 2007.

A. Levine, R. Loui, J. W. Lockwood, Y. H. Cho. Sensitivity analysis of gigabit concept mining system, *IEEE Aerospace Conference*, 2007.

J. B. Sharkey, D. Weishar, J. Lockwood, R. Loui, et al. Information processing at very high-speed data ingestion rates, in *Emergent Information Technolo-*

gies and Enabling Policies for Counter Terrorism, Popp and Yin, eds., IEEE Press/Wiley, 2006.

S. Eick, J. Lockwood, R. Loui, et al., Hardware accelerated algorithms for semantic processing of document streams *IEEE Aerospace Conference*, 2006.

J. Lockwood, S. Eick, D. Weishar, R. Loui, et al. Transformation algorithms for data streams, *IEEE Aerospace Conference*, 2005.

Publications on Network Devices and Design

J. Moscola, M. Pachos, J. Lockwood, R. Loui. FPsed: a streaming content search-and-replace module for an internet firewall, *Hot Interconnects (HotI)*, 2003.

J. Moscola, J. Lockwood, R. Loui. Implementation of a content-scanning module for an internet firewall, *Symposium on Field-Programmable Custom Computing Machines (FCCM)*, 2003.

R. Loui. Evidential reasoning in a network usage prediction testbed, *Uncertainty in AI IV*, Schachter, Levitt, Kanal, and Lemmer, eds., North-Holland, 1990. Also *Uncertainty Workshop IV*, 1988.

D. Chiu, D. Ting, R. Jain, R. Loui, and W. Hawe. Impact, design, and use of etherbridge, Digital Equipment Corporate Research Report, 1983.

R. Loui. Optimal paths in graphs with stochastic or multidimensional weights, *Communications of the ACM (CACM)*, 26, 1983. UR CS TR 115, 1982. Reprinted in *Bit* (Japan), 1984. Invited paper at *Operations Research Society Conf. (ORSA/TIMS)*, 1984. Also a response to M. Henig over the article, *CACM 28*, 1985.

Publications on Computing Practices and Education

R. Loui. A study of journal citations for 100 U.S. Computer Science faculties (in preparation; see <http://www.cse.wustl.edu/loui/cites2/>).

R. Loui, M. Waldvogel, M. Pachos, K. Krouse, and K. Ormsby. Independent comalloc: locality and performance of hashing large associative arrays (in the current gnu malloc and gawk releases, report under revision).

R. Loui. In praise of scripting: toward a real programming pragmatics. *IEEE Computer*, 2008 (to appear).

R. Loui. Why gawk for AI? *ACM SIGPLAN 32*, 1996. Translated into several languages, 2002, and included in standard gawk distribution.

R. Loui. Letter in response to J. Peterson's article on automatic spell-checking, *CACM 27*, Forum, 1981.

Publications on Multi-Agent Systems and Negotiation

R. Loui, R. Ratkowski, and J. Rosen. Can breakdown probability envelopes for negotiating agents be derived from priors? (Talk given at UIUC Urbana AIVR, 2006; paper in preparation).

R. Loui. An architecture for purely probabilistic negotiating agents: pessimism and punishment, laissez-faire paths, and one-sided rationality, *Prob-*

ability and Inference: Essays in Honour of Henry Kyburg, Jr., Harper and McClelland eds., College Books, 2007.

M. Looks and R. Loui. On game mechanisms and procedural fairness: preliminary framework, *JURIX* 2005.

M. Looks, R. Loui, and B. Cynamon. Dynamics of rule revision and strategy revision in legislative games, *JURIX* 2005.

R. Loui. One hundred observations about fair games, read at *Workshop on Legal Argumentation*, 1998.

R. Loui and D. Moore. Dialogue and deliberation, 1997. WU CS TR 97-11.

R. Loui. Models of deliberation in the social sciences, issue on Strategic Directions in AI, *ACM Computing Surveys* 27, 1995.

R. Loui. Report on The Workshop on Computational Dialectics, *AI Magazine* 16, 1995.

R. Loui. An argument and arbitration game (precis), *AAAI Workshop on Computational Dialectics*, 1994.

Publications on AI and Law: Theory and Systems

E. Rissland, K. Ashley, and R. Loui. AI and Law, a fruitful synergy, and eds., special issue on AI and Law, *Artificial Intelligence* 150, 2003.

B. Verheij, A. Lodder, R. Loui, and A. Muntjewerff, eds., *Legal Knowledge and Information Systems JURIX*, IOS Press, 2001.

R. Loui and M. Tutunaru. Fed cite harvest: recueillir les jurisprudences importantes, *Droit et Intelligence Artificielle*, Bourcier, Hassett, and Roquilly, eds., Romillat, 2000.

R. Loui. Review of Jaap Hage's Rules and Reasons, *Artificial Intelligence and Law* 8, 1999.

R. Loui and J. Norman, et al. Progress on Room 5: public interactive semiformal legal argument, *Intl. Conf. on AI and Law (ICAIL)*, 1997. Abstract given at *Conf. on French-American AI and Law*, 1998.

R. Loui. Logic of arguments, and arguments of cases, *World Congress of the Intl. Assoc. for Philosophy of Law and Social Philosophy (IVR)*, 1997.

R. Loui and J. Norman. Eliding the arguments of cases, WU CS TR 97-12, 1997.

R. Loui. Hart's critics on defeasible concepts and ascriptivism, *Intl. Conf. on AI and Law (ICAIL)*, College Park, ACM Press, 1995.

R. Loui, J. Norman, J. Olson, and A. Merrill. A design for reasoning with policies, precedents, and rationales, *Intl. Conf. on AI and Law (ICAIL)*, ACM Press, 1993.

R. Loui and J. Norman. Rationales and argument moves, *Artificial Intelligence and Law* 3, 1995. WU CS TR 93-03.

R. Loui. Should those who exercise the authority of rules also know the cases? read at *Workshop on Human and Machine Cognition*, 1993. Also Human and Machine Cognition Workshop papers, 1989, 1991, 1993, WU CS TR 93-27, 1993.

Publications on Logic and Automated Reasoning

R. Loui. A mathematical comment on the fundamental difference between legal theory formation and scientific theory formation, *Computational Models of Scientific Reasoning and Applications (CMSRA)*, 2005.

R. Loui. Review of Henry Prakken's Logical Tools for Modelling Legal Argument, *J. of Symbolic Logic* 64, 1999.

R. Loui. Case-based reasoning and analogy, *MIT Encyclopedia of Cognitive Science*, Wilson and Keil, eds., MIT Press, 1998.

R. Loui. Alchourron and von Wright on conflicting norms, Nute, ed., *Defeasible Deontic Logic*, Kluwer, 1997. Also presented at *Workshop in Honor of Carlos Alchourron*, 1996.

R. Loui. Review of Meyer and Wieringa: Deontic Logic in Computer Science, featured, *ACM Computing Reviews* 37, 1996.

G. Pinkas and R. Loui. Reasoning from inconsistency, *Conf. on Principles of Knowledge Representation and Reasoning (KR)*, Levesque and Brachman, eds., Morgan Kaufman, 1992. WU CS TR 91-27, 1991.

R. Loui. Argument and belief: where we stand in the Keynesian tradition, *Minds and Machines* 1, 1991. Also *AAAI Spring Symposium on Argument and Belief*, 1991.

R. Loui. Dialectic, computation, and ampliative inference, *Philosophy and AI*, Pollock, and Cummins, eds., MIT Press, 1991. Also precis delivered at *Midwest AI and Cognitive Science Conference*, 1990. WU CS TR 89-41.

R. Loui. Analogical reasoning, defeasible reasoning, and the reference class, *Conf. on Principles of Knowledge Representation and Reasoning (KR)*, Levesque and Brachman, eds., Morgan Kaufman, 1989. WU CS TR 89-7, 1989.

R. Loui. The curse of Frege, *Conf. on Theoretical Aspects of Reasoning about Knowledge (TARK)*, Vardi, ed., Morgan Kaufman, 1988.

R. Loui. Real rules of inference: acceptance and non-monotonicity in AI, *Communication and Cognition - AI* 5, 1988. Also UR CS TR 191, 1985.

R. Loui. *Theory and Computation of Uncertain Inference and Decision*, doctoral dissertation, U. of Rochester, 1987. Also UR CS TR228.

R. Loui. Nozick's acceptance rule and the lottery paradox, *Analysis* 47, 1987.

Publications on Cognitive Science and Foundational AI

R. Loui. Three kinds of machines we program, *AI and Virtual Reality*, Postiglione and Brungs eds., 2005. Also *Theological Encounter with Science and Technology Workshop*, ITEST, 2004.

R. Loui. Review of Brian Smith's Origin of Objects, *Artificial Intelligence* 106, 1999.

R. Loui. Some philosophical remarks on the foundations of computing, read at *Society for Exact Philosophy (SEP)*, 1998.

R. Loui. Back to the scene of the crime: who survived Yale shooting, Ford and Pylyshyn, eds., *The Robot's Dilemma Revisited*, Ablex, 1996. Also presented at *Workshop on Human and Machine Cognition*, 1989.

R. Loui. How a formal theory can be normative: interpretation vs. implementation, *J. of Philosophy* 90, 1993. Also read at *Workshop on Human and Machine Cognition*, 1991.

H. Kyburg, R. Loui, and G. Carlson, eds. *Knowledge Representation and Defeasible Reasoning*, Kluwer, 1990.

R. Loui. Response to Hanks and McDermott: temporal evolution of beliefs and beliefs about temporal evolution, *Cognitive Science* 11, 1987.

R. Loui. Review of Harman's change in view, *Artificial Intelligence* 32, 1987.

Publications on Logic and Argumentation

R. Loui. A modest proposal for annotating the dialectical state of a dispute, *SCRIPT ed 5*, 2008 (to appear).

R. Loui. Comment on the Cardozo conference on graphic and visual representations of evidence and inference in legal settings, *Law, Probability, and Risk* 6, 2007.

R. Loui. A citation-based reflection on Toulmin and argument, *Argumentation* 19, 2005. Also included in *Arguing on the Toulmin Model: New Essays in Argument Analysis and Evaluation*, Argumentation Library v. 10, Hitchcock and Verheij, eds., 2006.

C. Chesñevar, A. Maguitman, R. Loui. Logical models of argument, *ACM Computing Surveys* 32, 2000.

R. Loui. Process and policy: resource-bounded non-demonstrative argument, *Computational Intelligence* 14, 1998. WU CS TR 92-43.

F. Tohmé and R. Loui. Alchourron's defeasible conditionals and defeasible reasoning, *Logica, Informatica, Diritto*, 1996. *Logica Della Norme*, Martino, ed., 1997. WU CS TR 97-03.

R. Loui. Foucault, Derrida, Women's Speaking Justified, and Modelling Legal Argument, *Artificial Intelligence and Law* 3, 1995.

R. Loui, J. Norman, A. Merrill, K. Stiefvater, J. Olson, and A. Costello. Computing specificity. WU CS TR 93-03, 1993.

R. Loui and W. Chen. An argument game, WU CS TR 92-47, 1992.

G. Simari and R. Loui. A mathematical treatment of defeasible reasoning and its implementation, *Artificial Intelligence* 53, 1992. Also WU CS TR 89-12.

G. Simari and R. Loui. Confluence of argument systems: Poole's rules revisited, *Workshop on Non-Monotonic Reasoning (NONMON3)*, 1990.

R. Loui. Report on The Workshop on Defeasible Reasoning with Specificity and Multiple Inheritance, *AI Magazine* 11, 1991. Also expanded report, WU CS TR 90-22, 1990, with M. Kahn and G. Simari.

R. Loui and J. Dorosh. Edited partial transcription of The Workshop on Defeasible Reasoning with Specificity and Multiple Inheritance, *ACM SIGART* 2, 1991. WU CS TR 90-35, 1990.

R. Loui. Some inflammatory theses, *Workshop on Defeasible Reasoning with Specificity and Multiple Inheritance*, St. Louis, 1989. Also Benchmark problems for nonmonotonic systems, distributed.

R. Loui. Defeat among arguments II, WU CS TR 89-6, 1989.

R. Loui. Defeat among arguments: a system of defeasible inference, *Computational Intelligence 3*, 1987. UR CS TR 190, 1986.

Publications on Probabilistic Reasoning and Decision

R. Loui and J. Chen. Clothespins on timelines: utility interval representation of time, WU CS TR 93-05, 1993.

R. Loui. Kyburg and Volkswagens, *Computational Intelligence 10*, 1993.

R. Loui and N. Jain. Exact dominance without search in decision trees, *Workshop on Normative Systems*, 1991. WU CS TR 92-51, 1992.

R. Loui. Defeasible decisions: what the proposal is and isn't, *Uncertainty in AI V*, Henrion, Schachter, Kanal, and Lemmer, eds., North-Holland, 1990. Also *Uncertainty Workshop*, 1989. WU CS TR 89-30, 1989.

R. Loui. User's manual for CCRC: (common) computing reference classes, statistical reasoning shell v. 2.5, WU CS TR 89-8, 1989.

R. Loui. Two heuristic functions for utility, *AAAI Spring Symposium on Limited Rationality*, 1989. Also WU CS TR 89-9, 1989.

R. Loui. Defeasible specification of utilities, presented at *Society for Exact Philosophy 17*, 1988. Also in *Knowledge Representation and Defeasible Reasoning*, Kyburg, Loui, and Carlson, eds., Kluwer, 1990.

R. Loui. Computing reference classes, *Uncertainty in AI II*, Lemmer and Kanal, eds., North-Holland, 1987. Also *Uncertainty Workshop*, 1986.

R. Loui. Decisions with indeterminate probabilities, *Theory and Decision 21*, 1986.

R. Loui. Interval-based decisions for reasoning systems, *Uncertainty in AI*, Kanal and Lemmer, eds., North-Holland, 1986. Also, *Uncertainty Workshop*, Los Angeles, 1985 with J. Feldman and H. Kyburg.

Independent Publications by Students and Staff during Supervision

include thirteen refereed papers and twenty total papers as independent authors in *Artificial Intelligence (4x)*, *Journal of AI Research*, *Machine Intelligence and Pattern Recognition*, *Neural Computation*, *AAAI*, *IJCAI*, *GECCO*, and *NIPS*.

Journals Refereed

Advanced Computational Intelligence

Annals of Mathematical Computing

Annals of Mathematics and AI

Argumentation

Artificial Intelligence (AI Journal)

AI and Law

AI and Society

Autonomous Agents and Multiagent Systems
Communications of The ACM (CACM)
Computational Intelligence
Computers and Mathematics with Applications
Games and Economic Behavior
Group Decision and Negotiation
IEEE Expert
IEEE Transactions on Knowledge and Data Engineering
Intl. J. of Approximate Reasoning
Intl. J. of Intelligent Systems
J. of AI Research (JAIR)
J. of The Association for Computing Machinery (JACM)
J. of Logic and Computation (JLC)
Minds and Machines
Monist
Structured Programming
Synthese

Also 29 conferences, 20 program committees, 5 funding agencies, 4 NSF panels, and 5 minor editorial boards. Most recently reviewing for *ICAIL*, *JURIX*, *FINCO*, and *COMMA* conferences.

Conference Organization

SEP (Society for Exact Philosophy), St. Louis, 2002.
ICAIL (International Conference on AI and Law), St. Louis, 2001.
MiniSymposium on Interactive Foundations of Computing, St. Louis, 1997.
AAAI Workshop on Computational Dialectics, Seattle, 1994.
Workshop on Defeasible Reasoning and Multiple Inheritance, St. Louis, 1989.

Courses Taught

CS100 Computing Tools.
CS141 Web Services and Web Enterprise (experimental course).
CS104/160 Web Development (new course developed).
CS201/301 Formal Foundations of CS.
CS300 Art and Science of CS (experimental course).
CS313 AI Laboratory (new course developed).
CS363 Server-Side and CGI Scripting (new course developed).
CS436/456 Software Engineering/Software Project Management.
CS547/507 Formal Languages and Automata.
CS511 Artificial Intelligence I.
CS512 Artificial Intelligence II.
CS513 Knowledge Engineering.
CS513A AI (Entrepreneurial) Programming Project.
CS540 Formal Foundations of CS (course redeveloped).

CS580 Topics in Knowledge Representation (experimental course).

CS6742 Research Seminar in AI.

University, Engineering School, and Department Service

University Olin Women's Graduate Fellowship Panelist (06).

University Residential College Faculty Associate (04).

University Information Technology in Medical Education Committee (04).

University Board of Trustees Undergraduate Committee (02-04).

University Bookstore Advisory Committee (02-04).

University Chancellor's Management Team Research Speaker (01).

SEAS Engineering Library (89-90).

SEAS Engineering 2001 Report (90-91).

SEAS Library Liaison (90-91-92-93).

SEAS Speaker of Engineering Faculty Assembly (01-02).

SEAS Tenure Committees (both successful).

Department Graduate Admissions (88-89-90-91, 99-00-01, twice chaired).

Department Graduate Recruiting (00-01 chair).

Department Doctoral Committee (98-99 chair).

Department Summer Research (90-00 chair).

Department Technology Adoption Committee (99-00-01).

Other Notable Professional Shared ACM George S. Forsythe prize, 1983, for best U.S. undergraduate paper. Organized Harvard Internet Alumni Association, 1992. Plenary speaker at Spanish National AI Conference, 2003. Invited panelist at University of Rochester Campus-Wide Symposium on Probability as a Guide to Life, 2004. Keynote speaker at JURIX, 2006. Invited panelist at Conference on Visual Representations of Evidence, Yeshiva Law School, 2007. Invited lecturer on five continents.

Technical Skills R. Loui is an expert user of the UNIX system and its associated tools, especially gawk and C. He has spent over five thousand hours using image manipulation tools such as Photoshop and ten thousand hours manipulating dynamic web sites in DHTML, CSS, javascript, and cgi programming. Some systems administration and familiarity with many scripting languages such as php, perl, tcl, and others, including MATLAB. Formerly an early BASIC, FORTRAN, and LISP programmer. Experience with simulations, rapid prototyping, service innovation, workflow paradigm-shifts, and software project management functions.

References

G. Catalin Roman, Harold B. and Adelaide G. Welge Professor of Computer Science at Washington University. *roman@wustl.edu*

Simon Parsons, Professor in the Department of Computer and Information Science at Brooklyn College. *parsons@sci.brooklyn.cuny.edu*

Robert Pless, Associate Professor of Computer Science and Engineering at Washington University. *pless@cse.wustl.edu*

A. Ratner, Senior Analyst, National Security Agency. *asratne@nsa.gov*

Giovanni Sartor, Marie-Curie Professor of Legal Informatics and Legal Theory at University of Bologna (ITALY), Faculty of Law. *Giovanni.Sartor@eui.eu*

Representative Papers

Implementation of a Content-Scanning Module for an Internet Firewall, James Moscola, John Lockwood, Ronald P. Loui, Michael Pachos Proceedings of IEEE Symposium on Field-Programmable Custom Computing Machines (FCCM), 2003:

<http://citeseer.ist.psu.edu/moscola03implementation.html>

Dynamics of Rule Revision and Strategy Revision in Legislative Games, Moshe Looks, Ronald P. Loui, Barry Z. Cynamon, Legal Knowledge and Information Systems, IOS Press - 2005:

<http://books.google.com/books?id=5Ie3HI3t6qEC&pg=PA59&sig=8oRh04vSguKpYZsgd453G6f6IzU>

A Mathematical Comment on the Fundamental Difference between Legal Theory Formation and Scientific Theory Formation, Ronald P. Loui, Workshop on Computational Models of Scientific Reasoning, Lisbon, 2005:

<http://centria.di.fct.unl.pt/~greg/conf/proceedings/doc.01.pdf>

Streaming Hierarchical Clustering for Concept Mining, Moshe Looks, Andrew Levine, Adam Covington, Ronald Loui, John Lockwood, Young Cho, IEEE Aerospace Conference, Big Sky, MT, 2007:

http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4161605 or

http://www.arl.wustl.edu/~lockwood/publications/Streaming_Hierarchical_Clustering-IEEE_Aerospace_2007-z10_0701.pdf

Personal Born 12/26/61 in Honolulu, Hawaii. Graduate of Punahou School.