

CURRICULUM VITAE

MATWIN, Stan

Career Highlights:

Stan Matwin is a professor at the School of Information Technology and Engineering, University of Ottawa, where he directs the Text Analysis and Machine Learning (TAMALE) lab. His research is in machine learning, data mining, and their applications, as well as in technological aspects of Electronic Commerce. Author and co-author of 200 research papers, Stan has worked at universities in Canada, the U.S., Europe and Latin America, where in 1997 he held the UNESCO Distinguished Chair in Science and Sustainable Development. Former president of the Canadian Society for the Computational Studies of Intelligence (CSCSI) and of the IFIP Working Group 12.2 (Machine Learning). Founding Director of the Graduate Certificate in Electronic Commerce at University of Ottawa., former Chair of the NSERC Grant Selection Committee for Computer Science, and member of the Board of Management of the Centre of Excellence for Communications and Information Technology. Recipient of a CITO Champion of Innovation Award. Program Committee Chair and Area Chair for a number of international conferences in AI and Machine Learning. Member of the Editorial Boards of the leading journals in his field: Journal of Artificial Intelligence Research, Machine Learning journal, Computational Intelligence journal, and Intelligent Data Analysis journal. One of the founders of Distil Interactive Inc. and Devera Logic Inc.

Full Professor, tenured

Member of the Faculty of Graduate and Postdoctoral Studies, University of Ottawa

DEGREES: designation, institution, department, year

Ph.D., Warsaw University, Department of Computer Science, 1977.

M.Sc., Warsaw University, Department of Computer Science, 1972.

Control Data Institute Advanced Courses in Software Engineering and in Compiler Construction (by E. Yourdon), 1974.

EMPLOYMENT HISTORY: dates, rank/position, department, institution/firm

August 1992-	Tenured full professor, University of Ottawa
November 2004-	Foreign Research Associate, Polish Academy of Sciences, Institute of Computer Science
Aug. 2001-Mar. 2002	Visiting professor, Université de Paris XI, Laboratoire de recherché en informatique (LRI)
April 2002-May2002	Visiting professor, Université de Paris VI, Laboratoire d'informatique de Paris 6 (LIP6)

July 2000-July 2001	Director, Graduate Certificate in Electronic Commerce, University of Ottawa
July 1998-June 2000	Director, Ottawa-Carleton Institute for Computer Science
May 97-	Director, Graduate Studies in Computer Science, School of Information Technology and Engineering
July 1996-	Adjunct Research Professor, Institute for Interdisciplinary Studies: Cognitive Science, Carleton University
July 1996-May 1997	Associate Chair (Graduate Studies), Department of Computer Science, University of Ottawa
February-April 1995	UNESCO Distinguished Lecturer in Science and Sustainable Development, Universidad de Sao Paulo, ICMSC , Brazil
October-November 91	Visiting scientist, AI Branch, NASA Ames Research Center, Mountain View, California.
May 91-	Professor, Department of Computer Science, University of Ottawa, Director of the Ottawa Machine Learning Group.
January 88-June 88	Visiting Professor, Department of Computer Science, George Mason University, Fairfax, Virginia; member of Machine Learning and Inference Group.
May 1984-May 1991	Associate Professor, Department of Computer Science, University of Ottawa.
Sept. 1981-	Assistant Professor, Department of Computer Science, University of Ottawa.
Jan. 1982-May 83	Part time lecturer, Certificat d'Informatique, Université du Québec à Hull.
Sept. 1980-Sept. 1981	Assistant Professor, School of Computer Science, Acadia University, Nova Scotia.
May 1980-Sept.1980	Lecturer, Department of Computer Science, York University, Toronto.
July 1979-Aug. 80	Assistant Professor, Department of Computer Science, University of Guelph, Ontario.
Sept. 1975-July 1979	Assistant Professor, Department of Computer Science, Warsaw University, Warsaw, Poland.

SCHOLARLY AND PROFESSIONAL ACTIVITIES (past 7 years)

Editorial Boards:

2005-	Member, Editorial Board, Journal of Artificial Intelligence Research (THE premier Artificial Intelligence journal)
2003-	Member, Editorial Board, Computational Intelligence Journal
2002-	Member, Editorial Board, Machine Learning Journal
2003-2000	Member, Editorial Board, Intelligent Data Analysis Journal

Grant selection Panels, Boards of Directors:

- 2007 Reviewer, Future Information Technologies Program, Information Society Technologies, European Commission.
- 2004-2005 Chair, Grant Selection Committee for Computer Science B, Natural Sciences and Engineering Research Council
- 2003 - Member, College of Reviewers, NSERC Special Research Opportunities program
- 2003 Member, National Science Foundation Panel on Creating New capabilities in Learning from Data (ITR)
- 2003-2004 Chair, Research Tools and Instruments Committee (Computer Science), Natural Sciences and Engineering Research Council
- 2002- Director, Information Technology Cluster, Ontario Research Network on Electronic Commerce
- 2002-2005 Member, Grant Selection Committee 331 (Computer Science), Natural Sciences and Engineering Research Council
- 2002- Member, Board of Directors, Communications and Information Technology Ontario (Division of the Ontario Centers of Excellence)
- 2001- Member, College of Reviewers, Canada Research Chairs Program
- 1997 Member, NSERC Selection Committee for the Ph.D. Dissertation Prize in Sciences and Engineering
- 1990-94 Member and Chair, Editorial Board, IEEE EXPERT

Program Committees (since 1998):

- 2009 Member, program Committee, CAEPIA 2009 (Spanish Artificial Intelligence Society Conference), Sevilla, November 2009
- 2009 Member, Program Committee, Inductive Logic Programming, Paris, July 2009
- 2009 Area Chair, ECML/PKDD 2009, Bled, Slovenia, Sep. 2009
- 2009 Member, Program Committee, SIGKDD 2009, Paris, July 2009.
- 2008 Member, Program Committee, SBIA 2008, 19th Brazilian Symposium on Artificial Intelligence, Salvador, October 2008
- 2008 Member, Program Committee, 18th International conference on Inductive Logic Programming, Prague, September 2008
- 2008 Member, Program Committee, European Conference on Machine Learning and European Conference on Principles and practice of Knowledge Discovery in Databases, Antwerp, September 2008
- 2008 Member, Program Committee, Feature Selection in Data Mining and Knowledge Discovery (FSDM08), Antwerp, September 2008
- 2008 Member, Program Committee KDD 2008, 14th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Las Vegas, August 2008
- 2008 Member, Program Committee, 2nd ACM SIGKDD International Workshop on Privacy, Security, and Trust in KDD, Las Vegas, August 2008
- 2007 Co-Chair, Program Committee, European Conference on Machine Learning and Principles of Discovery in Databases, Warsaw, Poland, 2007

- 2006 Area Chair, European Conference on Machine Learning/Principles of Knowledge Discovery in Databases, Berlin, 2006
- 2006 Program Committee, International Conference on Machine Learning, Pittsburgh, PA, 2006
- 2006 Program Committee, International Conference on Data Mining, Hong Kong, 2006
- 2006 Program Committee, International Workshop on Privacy Aspects of Data Mining, Hong Kong, 2006
- 2006 Program Committee, European Conference on AI, Trentino, Italy, 2006
- 2006 Program Committee, ACM Conference on Information and Knowledge Management,
- 2005 Member, Program Committee, American Association for Artificial Intelligence, Pittsburgh, PA, 2005
- 2005 Member, Program Committee, Artificial Intelligence 2005, Annual Conference of the Canadian Society for the Computational Studies of Intelligence, Victoria 2005
- 2005 Member, Program Committee, 22nd International Conference on Machine Learning, Bonn, Germany
- 2005 Member, Program Committee, International Conference on Inductive Logic Programming, Bonn
- 2005 Member, Program Committee, International Workshop on Feature Selection for Data Mining, Newport Beach, CA.
- 2005 Member, Program Committee, International Symposium on Methodologies for Intelligence Systems, Saratoga Springs, NY.
- 2005 Member, Advisory Board, Tenth International Conference on Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing (RSFDGrC 2005).
- 2004 Co-Chair, Predictive Software Models Workshop, Software Technology and Engineering Practice, Chicago 2004
- 2005 Member, Program Committee, AAAI 2005
- 2004 Workshop Chair, International Conference on Data Mining, Bristol, UK
- 2004 Member, Program Committee, 21st International Conference on Machine Learning, Banff, Canada
- 2004 Member, Program Committee, European Conference on Machine Learning, Pisa, Italy
- 2004 Member, Program Committee, Principles of Knowledge Discovery in Databases, Pisa, Italy
- 2004 Member, Program Committee, Artificial Intelligence 2004, Annual Conference of the Canadian Society for the Computational Studies of Intelligence, London 2004
- 2003 Editor, Special Issue of Machine Learning journal on Inductive Logic Programming
- 2003/04 Member of the Board of Directors, Communications and Information Technology Ontario
- 2003 Member, Comité de programme, Conférence d'apprentissage, plateforme Association française d'intelligence artificielle, Laval

- 2004 Area Chair, 20th International Conference on Machine Learning, Washington, D.C.
- 2003 Member, Program Committee, European Conference on Machine Learning, Dubrovnik, Croatia
- 2003 Member, Program Committee, Principles of Knowledge Discovery in Databases, Dubrovnik, Croatia,
- 2004 Member, Program Committee, International Symposium on Methodologies for Intelligence Systems, Maebashi City, Japan
- 2003 Member, Program Committee, International Conference on Inductive Logic Programming, Szeged, Hungary
- 2002. Program Committee co-Chair, Inductive Logic Programming Workshop, Sydney, 2002
- 2002. Member, Program Committee, IEEE Conference on Knowledge Discovery in Databases
- 2002. Member, Program Committee, International Conference on Principles of Knowledge Discovery in Databases, Helsinki
- 2002. Member, Program Committee, International Symposium on the Methodologies for Intelligent Systems, Lyon, France
- 2002 Member, Program Committee, European Conference on Machine Learning, Helsinki
- 2001 Area Chair, International Conference on Machine Learning 2001
- 2001 Member, Program Committee, Inductive Logic Programming Conference 2001
- 2001 Member, Program Committee, European Conference on Machine Learning, Freiburg, 2001
- 2001 Member, Program Committee, Principles of Knowledge Discovery in Databases, Freiburg, 2001
- 2001 Member, Comité du programme, Conférence d'apprentissage, Grenoble 2001.
- 2001 Program Committee co-Chair, AI-2001, Ottawa
- 2000 Member, Program Committee, European Conference on Machine Learning 2000, Barcelona, Spain
- 2000 Member, Program Committee, AI2000, Montreal, Canada
- 2000 Member, Program Committee, Inductive Logic Programming Conference, London, UK.
- 1999 Member, Program Committee, PACLING 98, Waterloo, Canada
- 1999 Member, Program Committee, International Conference on Machine Learning, Bled, Slovenia
- 1999 Member, Program Committee, Inductive Logic Programming Workshop, Bled, Slovenia
- 1998 UNESCO Distinguished Lectures in Science and Engineering, University of Sao Paulo, Brazil
- 1998 Member, Program Committee, European Conference on Machine Learning, Chemnitz, Germany

Referee for:

IEEE PAMI, IEEE SMC, Machine Learning, IEEE TKDE, IEEE Expert, IJCAI, AAI, ECML, NSERC, NSF, FCAR

Member of the Senate, University of Ottawa, 1999-2000

Member of Promotion and Tenure Committees, departmental and faculty level, 1993-1996, 1997-2001, 2002-2005

GRADUATE SUPERVISIONS: career number - M/D; completed/in progress

Career Number:

Completed: 23 M.Sc., 13 Ph.D.
In progress: 3M.Sc., 8 Ph.D

GRADUATE STUDENTS - Completed their degrees (includes Post-doctoral fellows)

1. Luc Beaudoin, MSS, 2005-2009, Autonomous Computer Network Defence Using Reinforcement Learning
2. Huang, Jin, Post Doc, 2007-2009, machine Learning with Insufficient Training Sets
3. Su, Jiang, Post Doc (NSERC PDF), 2007-2009, Active Learning, Instance Selection, Bayesian Learning, semi-supervised learning
4. Kouznetsov, A., Post Doc, Machine Learning from Text Data, medical applications, text mining (2007-2009)
5. Sayyad Shirabad, Jelber, Post-doc, 2004-2004, Semi-supervised learning, Active Learning, Instance selection, Data mining in software engineering.
6. Caropreso, Fernanda, Ph.D., Extending the Bag of Words Representation for Text Classification, 2002-2008, graduated May 2008
7. Nadeau, David, Ph.D., Semi-Supervised Named Entity Recognition: Learning to Recognize 100 Entity Types with Little Supervision, 2004-2007, graduated November 2007 (co-supervised with P. Turney)
8. Ma, Yimin, MCS, Active Learning in Information Extraction, 2004 – 2007, graduated Oct. 2007.
9. Zhan, Justin, Ph.D., Privacy-preserving Collaborative Data Mining, 2003-2006, graduated in Aug, 2006
10. Mucsi-Nagy, Agnes, MCS, Digital Fingerprinting for sharing of Confidential Data, 2003-2006, graduated in Aug. 2006.
11. Dufay, Guillaume, Post Doc. Formal Methods in Application-Centric Privacy, 2004-2005
12. Hernadvolgyi, Istvan, Post Doc, Theorem Proving for Data Privacy Applications, 2004-2005
13. Ziyang Liu, MSS, Data Mining to Identify Gene Regulatory Networks in Time Series Gene Expression Data, 2002-2006, graduated in Feb. 2007.
14. Kiritchenko, Svetlana, Ph.D., Text Classification with Hierarchical Categories, 2001-2006
15. Armour, Quintin, M.C.S. Named Entity in Text classification (co-supervision with dr. Japkowicz), 2003-2005

16. Rong Tang, MCS, Transaction Models in Peer-to-Peer Databases, (co-supervised with Dr. Kiringa), 2003-2005
17. Souza, Jeffreson, Ph. D., A Hybrid Feature Selection Algorithm, first registration 2000, graduated in 2004
18. Alphonse, Erick, Ph.D., Literal Selection in ILP, 2000-2003
19. Zaluski, M., MCS, Case-based Knowledge Acquisition from Text, first registration 1999, graduated in 2004
20. Widlak, Magda, Effect of Word Sense Disambiguation on the Performance of Text Classification, M.Sc, first registration 1999, graduated in 2003
21. Drummond, Chris, **Post Doc.**, Learning with the use of Background Knowledge, 1999 -2002
22. Letourneau, Sylvain Ph. D., An Interactive Method for The Analysis and Removal of Attribute Dependencies in Data Mining, first registration 1998, graduated in 2003
23. Sayyad Shirabad, Jelber, Ph.D., Data Mining in Support of Software Maintenance Activities, first registration 1997, graduated in 2003
24. Morin, Johanne, Ph.D., Learning Relational Clichés, first registration 1993, graduated 1999.
25. Ouerd, Messaouda, Ph.D., Learning in belief networks and its application to distributed databases. First registration 1993, graduated 2000, joint supervision with Dr. J. Oommen, Carleton University.
26. Fontaine, Martin, M.C.S., Text Classification with Illegible Documents, , May 2000.
27. Rios, Riverson, Ph.D., Learning Recursive Definitions in Prolog, first registration 1994, graduated 1998
28. Charlebois, Daniel, Ph.D., A Planning System Based on Plan Reuse and its Application to GIS and Remote Sensing, first registration 1990, graduated 1997
29. Guiming Chen, M.C.S., Fuzzy FOIL: A Fuzzy Logic Based Inductive Logic Programming System, first registration 1993, graduated 1996
30. Lapointe, Stéphane, M.C.S., Induction of Recursive Logic Programs, first registration 1990, graduated 1992
31. Massey, Louis, M.C.S., A Lazy Text-based Approach to Foundational Knowledge Acquisition, first registration 1993, graduated 1995
32. Ould-brahim, Hamid, M.C.S., SAFIR: Analogy-based System for Database Definition and Query Reuse, first registration 1990, graduated 1993
33. Rouget, Thierry, M.C.S., Learning Explainable Concepts in Presence of a Qualitative Model, first registration 1993, graduated 1995
34. Sun, Tei-Wei, M.C.S., DEPARS: Design Pattern Recognition System, first registration 1993, graduated 1997
35. Scott, Sam, M.C.S., Feature Engineering for a Symbolic Approach to Text Classification, first registration 1995, graduated 1998
36. Pelletier, Bertrand, Ph.D., Unsupervised Learning of Planning Knowledge, first registration 1989, graduated 1994, Carleton University, co-supervised with B. Pagurek
37. Affa, Ahmad, M.C.S., Case-based Approach to Software Reuse, first registration 1990, graduated 1995, Carleton University

38. Salembier-Pelletier, Maude, M.C.S., Learning of Disjunctive Concepts with EBL, 1990.
39. Plante, Boris, MCS, Révision d'une Théorie du Domaine par des Cas Marginaux, 1990.
40. Genest, Jean, MCS, Building Software Specifications Using EBL with Incomplete Theories, 1990.
41. Morin, Johanne, M.C.S., Apprentissage Incrémental de Contraintes Procédurales par une Méthode Mixte, 1990.
42. Quéant, Claude, M.C.S., A QUIZ Apprentice, 1986.
43. Charlebois, Daniel, M.C.S., Scriptes Comme un Mécanisme de Base d'un Système Expert, 1989.
44. Forsythe, Ken, M.C.S., Intelligent Backtracking in Automatic Theorem Proving, 1983.

STUDENTS CURRENTLY SUPERVISED:

1. Farid Seifi, Semi-supervised Learning, co-supervised with N. Japkowicz and C. Drummond, Exploiting Additional Data relationships in ML, started May 2009
2. Houman Abassian, co-supervised with N. Japkowicz and C. Drummond, Bias and Variance in Machine Learning, started May 2009
3. Leanne Seaward, PhD, started January 2008, Use of Kolmogorov-Smirnov Measure in Machine Learning.
4. Francesc Massanes, Feb. – Aug. 2009, M.Sc. student at Universita Polytecnica de Catalunya, co-supervised with Dr. Josep Larriba Pey
5. Yari Saeed Khanloo, M.C.S., started September 2008, co-supervised with N. Japkowicz.
6. William Klement (Elazmeh), Ph.D., started in 2004, currently completing his thesis, co-supervised with N. Japkowicz
7. Morvarid Sehatkar, Ph.D., started in 2006, currently preparing her thesis proposal, co-supervised with Dr. W. Michalowski
8. Amir Rezavi, Ph.D., started in 2006, currently preparing his Comprehensive Exam.
9. M. Zhilin, PhD., started in 2004, working on his thesis submission, expected to graduate in 2008, co-supervised with M. Turcotte
10. Nour El-kadri, PhD., started in 2003 part-time, working on his thesis proposal.

GRADUATE COURSES: by year

2009	CSI 5387	Data Mining and Machine Learning (30 students)
2008	CSI 5387	Data Mining and Machine Learning (25 students)
2007	CSI 7163B	Advanced topics in computer systems: Machine Learning and Data Mining Systems, (enrolment 22 students)
2006	CSI 7162B	Topics in Concept Learning and Text Mining
2004-2005	CSI7162	Topics in Computer Science

2000-2003	CSI 5389	Electronic Commerce Technologies (30 students)
1988-2005	CSI5387	Concept Learning and Data Mining (25 students)
1999	CSI 7163	Internet Commerce Technologies
1997-	CSI 5387	(Data Mining and Concept Learning)
1995-1996	CSI 5387	(Concept Learning)
1995	CSI 5388	(Topics in Machine Learning)
1990-1994	CSI 5387	(Concept Learning)

SEMINARS:

Ottawa Machine Learning Group, currently Text Analysis and Machine Learning Group: weekly research seminar, attendance 15-20, externally advertised

EXTERNAL RESEARCH FUNDING: by year, indicating source (granting councils, industry, government, foundations, other); amount; purpose (research, travel, publications, etc.)

- 2009-2011 NSERC - Strategic Grant - "Analysis and Generation of Text with Personality", (D. Inkpen P.I.), \$87,500. – 2 years
- 2008-2009 Precarn/OCE Partnership, “Intelligent Mobile Content Agents”, \$100,000., with Dr. Inkpen
- 2007-2008 Precarn/OCE Partnership, “Embedding Machine Intelligence in the Systematic Review System”, \$150,000.
- 2007-2009 NSERC Cooperative Research and Development Grant “Finding best evidence for evidence-based best practice recommendations in health care”, with N. Cercone (York U., P.I; total \$313,000)
- 2007 Ontario Centres of Excellence, Market Readiness Program – Devera Logic, \$38,000.
- 2006-2008 NSERC Idea to Innovation Grant “Data mining training and assessment through digital games” (with I Squared Learning) NSERC \$247,500. I Squared Learning \$105,000. (Total \$352,500.)
- 2006-2010 NSERC Research Grant “Topics in Machine Learning and Data Privacy, \$38,000. /year
- 2006-2007 Ontario Centres of Excellence, “Student Internship Program” \$20,000. Industry funding from TrialStat, \$10,000.
- 2006 I Squared Learning (studentship grant) “System of Educational Tools based on Games (DGBL) \$27,000.

- 2006 Ontario Centres of Excellence, “Research Centre in Data Mining at the University of Ottawa”, \$35,000.
- 2005-2006 NSERC funding “Intellectual Property Mobilization Program 2005 Competition”, \$7,500. and CIHR \$2,500.
- 2005-2006 Ontario Centres of Excellence (formerly CITO) i² L –“Data Mining Technologies for Digital-based Games Learning”, \$48,000.
- 2005 Ontario Centres of Excellence, “Enterprise Solutions for Verifications of Policy Compliance, Market Readiness program, \$25,500.
- 2005 NSERC Tools and Instruments Grant ““Computational infrastructure for integrative data analysis in bioinformatics”, \$68,000, with X. Xia (P.I.) and V. Trudeau
- 2004 NSERC Idea to Innovation Grant “Application-centered Checkable Enablement of Privacy and Trust: ACCEPT”, \$125,000, with Dr. Amy Felty
- 2004 Communications and Information Technology Ontario, “Privacy-oriented Data Mining”, Tech readiness program, \$25,000
- 2003-2005 CITO Champion of Innovation, “Software Tools for Privacy in Data Mining”, \$200,000
- 2003-2005 CITO RPP Round 6.2 Research Grant Automatic Enforcement of Health Care Privacy Policies in Email (with N, Japkowicz, M.Geist), \$150,000
- ORNEC (Ontario Research Network in Electronic Commerce), ORDCF, \$13,364,567 (one of two principal co-applicants)
- 2003-2006 SSHRC-INE Élaboration d'un didacticiel intelligent pour le développement de compétences en lecture chez les apprenants en langue seconde (with L. Duquette, C. Barrière, A. Desrochers, S. Szpakowicz; collaboration with M. Laurier, P. Balcom, G. Chevalier, J. Binon, T. Selva, S.Verlinde), \$86,667
- 2001-2005 NSERC Research Grant, Machine Learning in the Presence of Domain Knowledge, \$35,000/yr
- 2000-002 CITO RPP Round 6.1, Content Extraction from On-line Documents, \$120,000 with Amika Now
- 1998-2001 NSERC Strategic Grant, Data Analysis: Integrated Methodologies for Knowledge Discovery and Machine Learning, \$147,500/yr, with N. Cercone (P.I., Waterloo), W. Ziarko, H. Hamilton (Regina), R. C. Holte (Ottawa).

- 1998-2000 CITO RPP Round 1, Case-based Planning and Learning for Reuse, with J. Glasgow, R.C. Holte, \$85,000
- 1997 Bell Canada Research Contract, \$38,000, Use of Machine Learning Techniques to Acquire Software Quality Information
- 1996 NSERC Research Grant, \$29,500, Inductive Learning in the Presence of Background Knowledge
- 1996-1999 Text Summarization, NSERC/NRC, R.C. Holte (P.I.), \$170,000/yr
- 1995-1997 Software Reuse, ITRC/CITO (J. Glasgow, P.I.) \$80,000/yr
- 1995-1997 Canadian Environmental Hazards Detection System, PRECARN, \$100,000
- 1993-1995 NSERC Research Grant, \$17,000, Selected Problems in multi-strategy learning Inductive Logic Programming.
- 1991-1994 NSERC Strategic Grant, \$73,000, Machine Learning and text Analysis for Semi-automated Knowledge Acquisition, (Principal Investigator).
- 1993 Planning and Learning for Query Reuse (\$73,000), Pacific Forestry Canada
- 1993 Machine Learning in Support of Software Maintenance, Canadian Space Agency, (\$25,000)
- 1992 Case-based System for Analysis of Remote Sensing Data, CCRS, \$50,000
- 1990-1993 NSERC Strategic Grant, \$94,475, Machine Learning applied to software re-use (Principal Investigator)
- 1992 EMR Grant, \$44,000, Machine Learning and Planning Techniques for Expert Use of LDIAS
- 1990-1991 EMR Grant, \$56,000, Machine Learning Techniques for Acquiring Knowledge About Expert Use of LDIAS
- 1989-1991 NSERC Infrastructure Grant, \$90,000 (3 yr.), Support for a Unix Computing Facility, (principal applicant)
- 1989-1991 Cognos-OTF grant, \$198,000, Adaptive Modeller Support, (principal investigator (with F. Oppacher and S. Szpakowicz).
- 1989-1991 NSERC Operating Grant, \$13,943, Machine Learning Methods for Practical Knowledge Acquisition

- 1988-1990 URIF Grant, \$15,000, Knowledge Acquisition with Learning by Watching and with Text Analysis
- 1988-1991 NSERC University Industry Cooperative Grant, \$126,000, Advanced Knowledge Acquisition Methods, principal investigator (with F. Oppacher and S. Szpakowicz) University of Ottawa Grant for a visiting scientist (T. Szapiro), \$3000.
- 1988 NSERC International Cooperation Grant, \$5,000, for a common project with Carnegie Mellon University
- 1987-1989 Cognos Grant, \$81,000, Knowledge Acquisition with Learning by Watching and with Text Analysis, (principal investigator with F. Oppacher and S. Szpakowicz)
CCRIT Grant, \$17,200, Système Expert sur les Politiques et Procédures de Voyage
- 1985-1986 NRC/Cognos Grant, \$800,00 (approx.), The QUIZ Advisor System, member of a team, University of Ottawa Grant, \$3,000, User Interface for NEGOPLAN
- 1986-1988 NSERC Infrastructure Grant, \$75,000 (3 yr.), \$75,000, Support for a VMS and Unix Computing Facility, Principal Applicant NSERC Individual Operating Grant, \$41,700 (3 years), Learning in an Advisor System
- 1986 OCRI Individual Grant, \$7,200, Learning in an Advisor System
Ontario-Quebec Grant, Individual, \$1,500

INDUSTRIAL PROFESSIONAL ACTIVITIES

PROJECTS WITH:

Devera Logic Inc. :Computer Security, Identity and Access Management (one of the founders).

Distil Interactive (formerly I Squared Learning): data mining training and assessment through digital games; one of the founders.

TrialStat: developer of data analytics solutions for medical trials and systematic reviews.

Entrust: Canada's leading IT Security company

AmikaMobile (formerly Amikanow): provider of technologies for information extraction from the WWW

IBM Canada: teaching Compiler Technology at TOROLAB, approx. 150 TOROLAB employees trained

Cognos, Inc.: leading a Cognos-sponsored research project (budget - approx. \$300,000), managing the research effort of a team of eight computer professionals,

Lanvista: in charge of an IRAP research project, a team of four

RES Inc. in charge of a team of three, co-managing a client-driven project

Macdonald Dettwiler Associates: managing the university component of the project, team of 3-4, budget \$100,000, deliverables-driven

ITRC: managing the university component of the project, team of four, budget approx \$100,000, in cooperation with Neutron, Inc.

Canadian Space Agency: managing a project on software reusability

Canada Centre for Remote Sensing: managing several projects in applications of KB technologies to Remote Sensing, over a period of three years, total funding approx. \$300,000,

Natural Resources Canada: continuation of the work with CCRS, over two years, total funding \$150,000

Revenue Canada, acted as Science Advisor to the Scientific Research and Development Tax Credits program (Montreal and Ottawa) for a period of ten years

Owner and President of Matwin and Associates, Inc., a small consulting company specializing in software engineering and knowledge-based systems

PATENTS AND INVENTION DISCLOSURES

Patent: J. Sayyad Shirabad, S. Matwin, K. White, “System for Evaluating Game Play Data Generated by a Digital Games Based Learning Game”, US Patent, submitted May 20, 2007.

Patent: S. Matwin, A. Felty, B. Stepien, K. Grigg, “A Method to Detect and Report Conflicts in Policy Rules”, submitted to University of Ottawa, Tech Transfer and Business Enterprise office, Sept. 2007.

Invention Disclosure: S. Matwin, D. Inkpen, W. Elazmeh, O. Frunza, “Automatic classification of systematic review documents using a per-question classifier”, submitted to University of Ottawa, Tech Transfer and Business Enterprise office, Jan. 2007.

PUBLICATIONS

1) Life-time summary (count) according to the following categories:

Books authored and co-authored - 5

Chapters in books - 5

Papers in refereed journals - 33

Papers in refereed conference proceedings – 162

2) Same categories as above: books, chapters in books, papers in refereed journals,

TECHNICAL REPORTS OR PAPERS READ ARE NOT INCLUDED.

NOTE: names of co-authors who were graduate students or postdocs at the time of publication are **in bold**

Books authored:

1. Aijun An, Stan Matwin, Zbigniew W. Ras, Dominik Slezak: Foundations of Intelligent Systems, 17th International Symposium, ISMIS 2008, Toronto, Canada, May 20-23, 2008, Proceedings Springer 2008.
2. Joost N. Kok, Jacek Koronacki, Ramon López de Mántaras, Stan Matwin, Dunja Mladenic, Andrzej Skowron: Machine Learning: ECML 2007, 18th European Conference on Machine Learning, Warsaw, Poland, September 17-21, 2007, Proceedings Springer 2007.
3. Matwin, **S.** Sammut, C., Inductive Logic Programming, Proceedings of the 12th International Conference, Lecture Notes in Computer Science, Springer Verlag, Sydney, Australia, 2002.
4. Stroulia, E., Matwin, **S.** , Artificial Intelligence 2001, Proceedings of the international conference, Lecture Notes in Computer Science vol. 2056, Ottawa, Canada, June 2001.
5. PASCAL. Scientific and Technical Publishers. Iglewski, J. Madey, Matwin, **S.** Warsaw, four editions, 1977, 1979, 1984 and 1987 (176 pp.).

Chapters in Books:

6. Matwin, **S.**, Szapiro, T., “Data Privacy: From Technology to Economics”, to appear in “Ryszard Michalski in memoriam”, Springer, 2009.
7. **Sayyad Shirabad J.**, Lethbridge, T. and Matwin, **S.**, “Modeling Relevance Relations Using Machine Learning Techniques”, in J.Tsai (ed), Advances in Machine Learning Approaches in Software Engineering, D. Zhang and J. Tsai, Editors, IGI, 2007, pp. 168-207.

8. **Caropreso, F., Matwin S. and Sebastiani F.**, "A learner-independent evaluation of the usefulness of statistical phrases for automated text categorization.", in Amita G. Chin (ed.), *Text Databases and Document Management: Theory and Practice*, Idea Group Publishing, Hershey, PA, 2001, pp. 78-102.
9. **Matwin S., Plante B.**, "Theory Revision by means of Analyzing Explanations and Prototypes", *Machine Learning*, Vol. 4, pp. 217-238, R. Michalski, G. Tecuci eds, Morgan-Kaufmann 1994.
10. **Szpakowicz S., Matwin S.**, "Advances in Logic Programming", in T.I. Ören (ed.), in "Advances in Artificial Intelligence in Software Engineering", (ed), (JAI Press, Greenwich, CT, 1991) (with S. Szpakowicz) pp.192-201

Papers in Refereed Journals (since 1985):

11. **Matwin S., Chang L., Wright R., Zhan J.**, Editorial - "Privacy and Security Aspects of Data Mining" Special issue – *International Journal of Information and Computer Security*, 2008 Volume 2, No. 1
12. **Zhan J., Matwin. S.**, "Privacy-Preserving Support Vector Machine Classification", *International Journal of Intelligent Information and Database Systems*, 2007 Volume 1, No.3/4, pp.356-385.
13. **Zhan J., Matwin S.**, "Privacy Preserving Data Mining in Electronic Surveys", *International Journal of Network Security*, Vol. 4, No. 3 pp.318-327, March 2007.
14. **Zhan J., Chang L., Matwin S.**, "Privacy Preserving Multi-Party Decision Tree Induction", to appear, *International Journal on Business Intelligence and Data Mining* 2(2): 197-212 (2007)
15. **de Souza J., Matwin S., Japkowicz, N.**: "Parallelizing Feature Selection", pp. 433-456, *Algorithmica* 45(3): 433-456 (2006) 2006.
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