
CURRICULUM VITAE

A. Personal data

NAME: MORARIU IONEL DANIEL

DATE OF BIRTH: 17.09.1974

PLACE OF BIRTH: Sighișoara

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B. Studies

1989 – 1993 – „Mircea Eliade” Theoretic High School, Sighisoara;

1993 – 1998 – „Lucian Blaga” University of Sibiu, Engineering Faculty, Bachelor Degree in Computer Science and Automatic Systems;

1998 – 1999 – „Lucian Blaga” University of Sibiu, Engineering Faculty. Master Degree in Computer Science, „Parallel and Distribute Processing Systems” specialization;

November 2002 - April 2007 - PhD in the Computer Science field at the “Lucian Blaga” University of Sibiu. The PhD title is “Contributions to Automatic Knowledge Extraction from Unstructured Data”, PhD supervisor Professor Lucian N. VINȚAN. The PhD program was partially supported from scientific and financial point of view by the SIEMENS Corporate Technology from Munich.

C. Professional Experience

10.2007 – present Lector at „Lucian Blaga” University, Engineering Faculty, Computer Science and Automatic Systems Department; Teaching Interfaces and Communication Protocols and labs for following disciplines: Neural Network, Expert Systems and Data Mining, Object Oriented Programming, Programming Distributed Systems and Microprocessors.

10.2003 – 10.2007 Teaching Assistant at „Lucian Blaga” University, Engineering Faculty, Computer Science and Automatic Systems Department; Teaching labs for the following disciplines: Neural Network, Expert Systems and Data Mining, Object Oriented Programming, Interfaces and Peripherals, Programming Distributed Systems and Microprocessors.

03.2000 – 10.2003 associate prof. at „Lucian Blaga” University, Engineering Faculty, Computer Science and Automatic Systems Department; Teaching labs for the following disciplines: Object Oriented Programming, Input Output Systems, Computer Architecture and CAD Methods.

02.2001 – 04.2002 Collaborator at SC Consultens Informationstechnik SRL (a German company), in a software department, as a software engineer.

10.1998 – 03.2000 Collaborator at „Lucian Blaga” University of Sibiu, “Hermann Oberth” Engineering Faculty, Computer Science and Automatic Systems Department. I teach labs for the following disciplines: Microprocessors, Input Output Systems, Object Oriented Programming.

08.1998 – 03.2000 Engineer in Computer Science and Automatic Systems in the Research Laboratory from SC IRMES SA Sibiu;

Projects: - software for monitoring of special parameters such as rotation speed and vibrations at generators for thermoelectric power stations;

- Software for supervision and control gas supply for vapor kettle from thermoelectric power stations.

D. Books

M. Breazu, **D. Morariu**, G. Curea *Object Oriented Programing – Laboratory Manual*, “Lucian Blaga” Publishing House, Sibiu, ISBN 978-973-739-918-2, 2010, (in Romanian);

D. Morariu, *Text Mining Methods based on Support Vector Machine*”, MATRIX ROM Publishing House, București, ISBN 978-973-755-343-0, 2008;

D. Morariu, *Interfaces and Communication Protocols - Laboratory Manual*, “Lucian Blaga” Publishing House, Sibiu, 104 pages, ISBN 978-973-739-447-7, 2007, (in Romanian);

E. Scientific Activity

R. Cretulescu., **D. Morariu**, M. Breazu, L. Vintan – *Using Genetic Algorithms for Weights Space Exploration in an Eurovision-like weighted Meta-Classifer*, The second international conference in Romania of Information Science and Information Literacy, ISSN 2067-9882, April 2011;

R. Cretulescu, **D. Morariu**, L. Vintan, I. Coman – *An Adaptive Meta-classifier for Text document*, 16th International Conference on Information Systems Analysis, pp. 372-377, ISBN-13: 978-1-934272-86-2(Collection), ISBN-13: 978-1-934272-88-6(Volume II) ,Florida, USA, 2010 (http://www.iiis.org/CDs2010/CD2010IMC/ISAS_2010/Abstract.asp?myurl=UA277CD.pdf)

D. Morariu, R. Cretulescu, L. Vintan – *Improving a SVM Meta-classifier for Text Documents by using Naive Bayes*, International Journal of Computers, Communications & Control, Vol. V, No. 3, pp. 351-361, ISSN 1841-9836, E-ISSN 1841-9844, September 2010 (impact factor 0.373 for 2010 - http://journal.univagora.ro/?page=article_details&id=418)

D. Volovici, M. Breazu, A.C. Mitea, **D. Morariu** – *Digital Information Retrieval*, Journal of Studies in Informatics and Control, Vol. 19, issue 2, June 2010, pp. 185-192, ISSN 1220-1766, June 2010 (impact factor 0.33 for 2010 - http://www.sic.ici.ro/sic2010_2/index.html)

D. Volovici, M. Breazu, G. Curea, **D. Morariu** – *Statistical Methods for Performance Evaluation of WEB Document Classification*, Journal of Studies in Informatics and Control, Vol. 19, issue 2, June 2010, pp. 169-175, ISSN 1220-1766, June 2010 (impact factor 0.33 for 2010 - http://www.sic.ici.ro/sic2010_2/index.html)

R. Cretulescu., **D. Morariu**, L. Vintan – *Eurovision-like weighted Non-Adaptive Meta-classifier for Text Documents*, Proceedings of the 8th RoEduNet IEEE International Conference Networking in Education and Research, pp. 145-150, ISBN 978-606-8085-15-9, Galati, December 2009 (indexed ISI Web of Science - <http://apps.isiknowledge.com/>)

D. Morariu, M. Vintan, L. Vintan "*Aspects Concerning SVM Method's Scalability*", Published at International Symposium on Intelligent and Distributed Computing (IDC 2007) in Studies in Computational Intelligence volume 78, ISBN: 978-3-540-74929-5, ISSN 1860-949x, pp. 125-134 , Craiova, October 2007 (factor impact 0.515 for 2007, ISI Thomson Web of Knowledge – v. <http://apps.isiknowledge.com/>)

D. Morariu, M. Vintan, L. Vintan, *Studying SVM Method's Scalability Using Text Documents*, Scientific International Journal for Parallel and Distributed Computing: Scalable Computing: Practice and Experience, Vol. 9, pp. 1-10, ISSN 1895-1767 (www.scpe.org), 2008

D. Morariu, M. Vintan, L. Vintan, *Aspects Concerning SVM Method's Scalability*, Published at International Symposium on Intelligent and Distributed Computing (IDC 2007) in Studies in Computational Intelligence volume 78, ISBN: 978-3-540-74929-5, ISSN 1860-949x, pages 125-134 Craiova, October 2007;

D. Morariu, L. Vintan, *Kernel's Correlation for Improving SVM in Text Documents' Classification*, "Acta Universitatis Cibiniensis", Technical Series. (Computer Science and Automatic Control) , vol. LV, pg. 90-97, ISSN 1583-7149, "Lucian Blaga" University of Sibiu, , 2007;

D. Morariu, L. Vintan, V. Tresp, *Evaluating some Feature Selection Methods for an Improved SVM Classifier*, International Journal of Intelligent Technology, vol. 1, no. 4, ISSN 1305-6417, pages 288-298, 2006;

D. Morariu, L. Vintan, V. Tresp, *Meta-classification using SVM classifiers for Text Documents*, Proceedings of the 3rd International Conference on Machine Learning and Pattern Recognition (MLPR 2006), Barcelona, ISSN 1305-5313, pages 222-227, October 2006;

D. Morariu, L. Vintan, V. Tresp, *Evolutionary Feature Selection for Text Documents using the SVM*, Proceedings of the 3rd International Conference on Machine Learning and Pattern Recognition (MLPR 2006), Barcelona, ISSN 1305-5313, pages 215-221, October 2006;

D. Morariu, L. Vintan, V. Tresp, *Feature Selection Methods for an Improved SVM Classifier*, Proceedings of the 14th International Conference on Computational and Information Science, Prague, ISSN 1305-5313, pages 84-89, August 2006;

D. Morariu, L. Vintan, *A Better Correlation of the SVM kernel's Parameters*, Proceedings of the 5th RoEduNet International Conference, Sibiu, ISBN (13) 978-973-739-277-0, pages 244-249, June 2006;

D. Morariu, G. Curea, *Learning using the Support Vector Concept*, Proceedings of Scientific Workshop „The Science Challenge in XXI Century”, organized by Land Forces Military Academy Sibiu, ISBN 973-8088-85-2, pages 29-36, Sibiu, December 2003;

G. Curea, **D. Morariu**, *Structure of web data using XML*, Proceedings of Scientific Workshop „The Science Challenge in XXI Century”, organized by Land Forces Military Academy Sibiu, ISBN 973-8088-85-2, pages 21-28, Sibiu, December 2003;

B. Ilie, A. Santa, **D. Morariu**, *Some aspects for using DICOM standards in medical imagistic*, Proceedings of Scientific Workshop Tg. Mures 27-28 October, Targu Mures, 2000;

B. Ilie, A. Santa, **D. Morariu**, *DICOM Standards used in Medical Imagistic implemented in Sibiu Hospital's computer network*, Proceedings of Scientific Workshop Tg. Mures 27-28 October, Targu Mures, 2000 (pages 47-57);

D. Morariu, N. Achim, *Diagnosing a thermoelectric system using signals harmonics* at Scientific Workshop „Beyond 2000: Engineering Research Strategies”, Sibiu, 1999.

F. Some citation of my papers

Muntean, M., Valean, H., Miclea, L., Incze, A., **A novel intrusion detection method based on support vector machines**, Computational Intelligence and Informatics (CINTI), 2010 11th International Symposium on, Budapest, ISBN: 978-1-4244-9279-4, 18-20 Nov. 2010, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5672276

Ravindra Prabhakar Joshi, Sahana Bhosale, Prakash H. Patil, "*Analysis and Simulation of Noise in Power Line Communication Systems*," pp.1287-1292, 2008 First International Conference on Emerging Trends in Engineering and Technology, 2008, <http://www.computer.org/portal/web/csdl/doi/10.1109/ICETET.2008.234>

Art Vandenberg, Vijay K. Vaishnavi, Saravanaraj Duraisamy and Tianjie Deng - *Dynamically Generating Context-Relevant Sub-Webs*, Lecture Notes in Computer Science, 2010, Volume 6105/2010, 270-285, <http://www.springerlink.com/content/g026x8m163061700/>

Muntean, M., Ileana, I., Rotar, C., *Improving Classification with Cost-Sensitive Approach and Support Vector Machine*, Proceedings of the 9th RoEduNet IEEE International Conference Networking in Education and Research , 2010, was cited paper "A Better correlation of the SVM Kernel's Parameters", 5th RoEduNet IEEE international Conference, Sibiu, Romania, 2006;

Dalal, S., Malik, L., *A Survey of Methods and Strategies for Feature Extraction in Handwritten Script Identification*, Emerging Trends in Engineering and Technology, 2008, ICETET '08, ISBN: 978-0-7695-3267-7, Nagpur, Maharashtra 16-18 July 2008 was cited paper "Evolutionary Feature Selection for Text Documents using the SVM", MLPR 2006, Barcelona, ISSN 1305-5313, 2006;

Chow R., Zhong W., Blackmon M., Stolz R., Dowell M. - *An efficient SVM-GA feature selection model for large healthcare databases*, Proceedings of the 10-th annual conference on genetic and evolutionary computation, Pages 1373-1380, ISBN:978-1-60558-130-9, Atlanta, GA, USA, 2008 was cited paper "Evolutionary Feature Selection for Text Documents using the SVM", MLPR 2006, Barcelona, ISSN 1305-5313, 2006;

Anwar Ali Yahya, Abd Rahman Ramli - *Genetic-based approach for cue phrase selection in dialogue act recognition*, Evolutionary Intelligence (2009) 1:253–269, ISSN 1864-5909 (Print, Springer Berlin / Heidelberg, <http://www.springerlink.com/content/q595147183566236/fulltext.pdf> , 2009, was cited paper "Evolutionary Feature Selection for Text Documents using the SVM", MLPR 2006, Barcelona, ISSN 1305-5313, 2006;

Cheng-Lung Huang - *ACO-based hybrid classification system with feature subset selection and model parameters optimization*, Neurocomputing, Volume 73, Issues 1-3, December 2009, Pages 438-448, was cited paper D. MORARIU, L. VINTAN, V. TRESP – *Evaluating some Feature Selection Methods for an improved SVM Classifier*, International Journal of Intelligent Technology, vol. 1, No. 4, ISSN 1305-6417, pp. 288-298, 2006

G. Research Projects

Director at a research project from CNCSIS, Project Name –*Automatic Classification of Unstructured Data using MetaClassifiers based on Support Vector Machine and Naïve Bayes*, Contract No. PD_670 (27/04.08.2010), years 2010-2012, see: <http://webspace.ulbsibiu.ro/daniel.morariu/ACUD>

Member in a research project from CNCSIS- PNII, Project name - *Tehnici pentru managementul conținutului digital - TEMACOD*, director of project D. Volovici, coordinator Universitatea Politehnica București. Nr. Contract 12099/01.10.2008,2008-2010, see CNCSIS site: http://www.cncsis.ro/PNCIDI%20II/Ideii/2008/Exploratorie/Primate/DOMENIU_5.html, respective ULB Sibiu site http://cercetare.ulbsibiu.ro/PNII_2008.php

Member in a research project from CNCSIS- PNII, Project name - *Sistem integrat pentru indexarea și partajarea on-line a documentelor tehnice digitizate – SIPTEH*, director of project D. Volovici, coordinator Universitatea Dunărea de jos from Galați. No. Contract 12133/01.10.2008, 2008-2011see CNCSIS site: http://www.cncsis.ro/PNCIDI%20II/Ideii/2008/Exploratorie/Primate/DOMENIU_5.html, respective UB Sibiu site http://cercetare.ulbsibiu.ro/PNII_2008.php

Member in a research project from CNCSIS tip A, with project “*Advanced superscalar microharchitecture with parallel and speculative processing*”, director of project L. VINTAN, code 39, years 2007 - 2008

Member in a research project from CNCSIS, with project “*Extinderea Paradigmei analizei scurcircuitelor monofazate in retelele electrice de inalta tensiune prin metode clasice si euristice*”, director of project M. VINTAN, code 485, years 2008 – 2010, 510320RON see CNCSIS and ULBSIBIU sites

http://www.cncsis.ro/PNCIDI%20II/Ideii/2008/Exploratorie/Primate/DOMENIU_5.html,

respectively http://cercetare.ulbsibiu.ro/PNII_2008.php

Member in a research project from CNCSIS, with project “*Improving superscalar architectures paradigm by instruction reuse and value prediction*”, director of project L. VINTAN, code 71/2004, years 2004 - 2006

Member in a research project from CNCSIS, with project „*Research about loss compression for images*”, director of project M. BREAZU, code 13, years 2004-2005.

I obtained from ANSTI – National Agency for Science, Technology and Innovation – Romania a research grant as **project director** with project „*Monitoring Special Parameters for generators maintenance*”, code 6229/596/2000, for two years (2000 and 2001) with total cost of 36 mil lei(~800Eur).

Member in a research project from CNCSIS, with project „*Research about elaboration new highly performance unconventional architecture*”, director of project L. VINTAN, number 34965, code 8/2001, 2001.

Member in a research project from ANSTI, with project „*Research about neuronal and fractal compression for images*”, director of project M. BREAZU, code 6229/640/2000, in 2000 and 2001.

H. Other Activities and Technical reports

D. Morariu, *Relevant characteristics extraction from semantically unstructured data*, 3rd PhD Report, University „Lucian Blaga” of Sibiu, October 2006;

D. Morariu, *Classification and Clustering using Support Vector Machine*, 2nd PhD Report, University „Lucian Blaga” of Sibiu, September 2005;

D. Morariu, *Web Information Retrieval*, 1st PhD Report, University „Lucian Blaga“ of Sibiu, February 2005;

D. Morariu, *Hardware Key for the protection of IBM compatible Computers*, at Students Scientific Workshop organized by „Lucian Blaga“ University, Sibiu, 1998.

I. Conferences and research stages

- 21-25 October 2006 Barcelona, Spain, participated at 15th Enformatika Conference
- 24-28 August 2006 Prague, Czech Republic, participated at 14th Enformatika Conference
- 7 October-12 November 2005 – a PhD research stage at Siemens AG CT, Neural Network Department, Munchen, Germany
- 1 July – 23 July 2004 – a PhD research stage at Siemens AG CT, Neural Network Department, Munchen, Germany
- 2 April – 30 April 2003 – a PhD research stage at Siemens AG CT, Neural Network Department, Munchen, Germany
- 17 -18 October 2002 – a experience exchange with Siemens AG CT, Munchen Germany

J. Skills

Foreign Languages: English

Programming Skills: Java, C++, Basic, LabView, Rational Rose (UML), Builder C++, MS Office, FoxPro, Orcad, AutoCad, Windows, Linux

Other Skills: knowledge in electronics, hardware design, microcontrollers,

April 27, 2011, Sibiu, Daniel MORARIU