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Extensive Curriculum Vitae

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Thessaloniki, February 2019

1. Personal Information

Date of birth: 28/3/1977
Place of birth: Thessaloniki
Marital status: Married, with twins born 8/2013
Military obligations: Fulfilled. Pvt Research & Informatics, 8/8/2005 - 8/8/2006
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2. Education

University degrees

1994-1999 School of Informatics, Aristotle University of Thessaloniki, Greece.
Honours in Informatics, Grade 8.1 out of 10, very good.
Thesis: *Combining Expert and Geographical Information Systems for Land Evaluation*.

1999-2000 School of Informatics, University of Edinburgh, U.K.
M.Sc. in Artificial Intelligence, Grade A-, excellent (distinction).
Thesis: *A Knowledge Based System for Rock Fracture Classification in Deep Boreholes*.

2001-2005 PhD, School of Informatics, Aristotle University of Thessaloniki, Greece.
Thesis: *Machine Learning for the Fusion of Multiple Distributed Intelligent Systems*.

Foreign languages

English: Very good reading, writing and communicating, Cambridge Proficiency, Grade B, 1995.
German: Elementary reading, writing and communicating, Grundstufe, Gesamtnote Befriedigends, 1993.

Continuous education

12/2015 University of California, Berkeley, edX Verified Certificate for *The Science of Happiness*.
10/2016 ETH Zurich, edX Verified Certificate for *Agile Software Development*.

3. Scholarships

2009-2010 IKYDA scholarship supporting my research collaboration with TU Darmstadt, Germany. IKYDA is a bilateral research promotion programme, concluded between the Greek State Scholarship Foundation (IKY) and the German Academic Exchange Service (DAAD).

2002-2004 Three scholarships for corresponding paper presentations in European Conferences from a) the European Coordinating Committee for Artificial Intelligence (ECCAI), b) the Hellenic Artificial Intelligence Society (EETN) and c) the KDNET network of excellence.

2001-2002 Two scholarships for attending corresponding schools, a) from the European Committee (project HPCF-2000-00401) for the school entitled "Intelligent Data Analysis" in Palermo, Italy and b) from Alexander S. Onassis public benefit foundation for the school entitled "The Data Avalanche: Reducing Information Overload", in Heraklion, Greece.

1999-2000 Scholarship from the Student Awards Agency for Scotland covering the tuition fees of the MSc in Artificial Intelligence.

4. Work Experience

- 03/2013 - Today Assistant Professor, Department of Informatics, Aristotle University of Thessaloniki.
- 08/2007 - 3/2013 Lecturer, Department of Informatics, Aristotle University of Thessaloniki
- 2002 - 2004 Consultant for SMEs of the areas of Thessaloniki and Chalkidiki in adopting e-business practices. Programme "Go-Digital" funded by the Greek Ministry of Development.
- 2001-2003 Lecturer of seminars on C, C++, Microsoft Word/Excel in the Association of Greek Physicists, dept. of Central and Western Macedonia (~ 400 hours).
- 2001-2002 Lecturer in IEK Kalamaria and IEK Thessaloniki 2, for a total of 377 hours, in the specialties Industrial Software Technician, Tele-Informatics Technician and Informatics Applications Specialist (3 semesters).
- 01/2000 - 09/2000 Database and web programmer (part-time).
"Dynamic Blue Ltd", Edinburgh, UK.
- 09/1998 - 06/1999 Database and web programmer, technical support, network administration (part-time).
Information Technology Center, Aristotle University of Thessaloniki, Greece.
- 03/1998 - 12/1998 Programmer of a commercial multimedia application (part-time).
"Digital Arts" (in collaboration with MLS Multimedia), Thessaloniki, Greece.
- 10/1996 - 01/1998 Information technology manager (part-time).
"STAR FM 97.1" radio station, Thessaloniki, Greece.

5. Teaching Experience

- 2018-today Teaching the postgraduate course Text Mining and Natural Language Processing, Dept. of Informatics, AUTH, Greece.
- 2015-2018 Teaching together with colleagues Petros Nicopolitidis and Dimitris Vrakas the undergraduate course Mobile Networks & Application Development, Dept. of Informatics, AUTH, Greece. I'm covering the Android development part.
- 2009-today Teaching the postgraduate course Advanced Machine Learning & Knowledge Discovery, Dept. of Informatics, AUTH, Greece.
- 2008-today Teaching the undergraduate course Object Oriented Programming, Dept. of Informatics, AUTH, Greece. From 2008 till 2012, I was teaching this together with colleague Panagiotis Katsaros.
- 2007-today Teaching the undergraduate courses Decision Theory and Systems (together with colleague Ioannis Vlahavas) and Web Information Systems (together with colleague Athena Vakali), Dept. of Informatics, AUTH, Greece.
- 2007-2015 Teaching together with colleague Dimitris Vrakas the undergraduate course Intelligent Autonomous Systems, Dept. of Informatics, AUTH, Greece.
- 2011-2013 Teaching together with colleague Athena Vakali the postgraduate course Web Information Systems, International Hellenic University, Greece.
- 2007-2012 Teaching the undergraduate course Multiagent Systems, Dept. of Informatics, AUTH, Greece.

Since the academic year 2010-2011, I have supervised 18 postgraduate theses. Since the academic year 2007-2008, I have supervised 41 graduate theses.

6. Research Projects

- *Title:* Exploitation of Cultural Assets with computer-assisted Recognition, Labeling and meta-data Enrichment. *Starting date:* 6/2018. *Ending date:* 6/2021. *Budget:* € 133.600. *Source of funding:* Co-financed by the European Regional Development Fund of the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH – CREATE - INNOVATE (project code: T1EDK-05580). *Role in the research team:* Principal Investigator.
- *Title:* A European AI On Demand Platform and Ecosystem (AI4EU). *Starting date:* 1/2019. *Ending date:* 12/2021. *Budget:* € 110.625. *Source of funding:* EU H2020. *Role in the research team:* Researcher.
- *Title:* Semantic indexing and question answering in big data. *Starting date:* 9/2018. *Ending date:* 8/2019. *Budget:* € 108.000. *Source of funding:* Atypon Systems Inc. *Role in the research team:* Researcher.
- *Title:* Semantic indexing and question answering in big data. *Starting date:* 3/2017. *Ending date:* 2/2018. *Budget:* € 120.000. *Source of funding:* Atypon Systems Inc. *Role in the research team:* Researcher.
- *Title:* Semantic indexing and question answering in big data. *Starting date:* 11/2015. *Ending date:* 10/2016. *Budget:* € 60.000. *Source of funding:* Atypon Systems Inc. *Role in the research team:* Researcher.
- *Title:* Semantic indexing and question answering in big data. *Starting date:* 1/2015. *Ending date:* 07/2015. *Budget:* € 30.000. *Source of funding:* Atypon Systems Inc. *Role in the research team:* Researcher.
- *Title:* Daily gas consumption forecasting. *Starting date:* 8/2014. *Ending date:* 12/2014. *Budget:* € 10.000. *Source of funding:* Gas Distribution Company of Thessaly. *Role in the research team:* Researcher.
- *Title:* Customer data analysis system. *Starting date:* 6/2014. *Ending date:* 12/2014. *Budget:* € 28.000. *Source of funding:* Diamantis Masoutis S.A. *Role in the research team:* Researcher.
- *Title:* Information System for productivity and customer service improvement in the Public Transportation Companies. *Starting date:* 4/2014. *Ending date:* 6/2015. *Budget:* € 191.304 (€ 66.900). *Source of funding:* Greek General Secretariat for Research and Technology. *Role in the research team:* Researcher.
- *Title:* Intelligent System in Supply Chain Monitoring and Optimization. *Starting date:* 6/2012. *Ending date:* 6/2014. *Budget:* € 338.797 (€ 27.000). *Source of funding:* Greek General Secretariat for Research and Technology. *Role in the research team:* Researcher, applying machine learning algorithms on sales/supply data for sales prediction.
- *Title:* I-NET (Interoperability Enterprise NetWork): Consortium on Interoperability, Flexibility and Adaptability of B2B Transactions across Enterprises. *Starting date:* 1/6/2007. *Ending date:* 31/10/2008. *Budget:* € 100.750 (€ 25.340). *Source of funding:* Greek General Secretariat for Research and Technology. *Role in the research team:* Researcher, applying data mining techniques on past business transaction data with the goal of building a model that predicts the credibility of enterprises.
- *Title:* SWIM: Development of an Intelligent System for the management of Semantic Web Services. *Starting date:* 1/11/2005. *Ending date:* 31/10/2008. *Budget:* € 138.240 (€ 88.664). *Source of funding:* Greek General Secretariat for Research and Technology. *Role in the research team:* Researcher, developing data mining methods for automated classification of Web services according to their application domain.
- *Title:* SWEL: Planning Systems in the Semantic Web for E-Learning. *Starting date:* 1/1/2005. *Ending date:* 31/12/2007. *Budget:* € 50.000. *Source of funding:* Greek Ministry of National Education and Religious Affairs. *Role in the research team:* Researcher, responsible for the design of a text classification system that matches the textual description of an educational resource to one or more nodes of an educational terms ontology.
- *Title:* EUROCITIZEN: An interactive, agent-based, on line edutainment environment to promote European intercultural education and cooperation among citizens of Europe. *Starting date:* 1/9/2002. *Ending date:* 28/2/2005. *Budget:* € 750.000 (€ 69.633). *Source of funding:* European Union under the IST program. *Role in the research team:* Developer, responsible for developing the question selection mechanism.

7. Scientific Activities

Invited talks and lectures

- *Mining Biomedical Publications*, August 31, 2018
2nd Workshop on Biomedical Information Management, Hamburg, Germany.
- *Machine Learning for Understanding Biomedical Publications*, October 12, 2017
12th Conf. of the Hellenic Society for Computational Biology and Bioinformatics, Athens Greece.
- *Learning from Multi-Label Data*, January 12, 2017
School of Electrical & Computer Eng., Aristotle University of Thessaloniki, Thessaloniki, Greece.
- *Exploiting Target Dependencies in Multi-Target Prediction*, September 13, 2016
25th Belgian-Dutch Conference on Machine Learning, Kortrijk, Belgium.
- *Multi-Target Prediction and Applications in the Publishing, Energy and Retail Industries*, June 21, 2016.
2016 South-East Forum on Data Science, Belgrade, Serbia.
- *Semantic Indexing of Biomedical Literature*, February 20, 2014
XEROX Research Center Europe, Grenoble, France, February 20, 2014
- *Multi-Label Learning for Concept-Based Retrieval*, November 16, 2011
Informatics and Telematics Institute, Centre for Research & Technology – Hellas, Thessaloniki, Greece.
- *Learning from Multi-Label Data*, May 10, 2011.
Department of Informatics of the Ionian University, Kerkyra, Greece.
- *Ensemble Methods for Multi-Label Data*, September 20, 2010.
2010 Supervised and Unsupervised Ensemble Methods Workshop of ECML PKDD, Barcelona, Spain.
- *Learning from Multi-Label Data*, August 24, 2009.
1st Hellenic Artificial Intelligence Summer School (HAISS), Thessaloniki, Greece.

Prizes and Awards

- Winner of the Third Round of Crowdfunder's AI for Everyone Challenge¹, in collaboration with Prof. A. Vakali and 4 US universities for the proposal: "Hate Speech, Cyberbullying, and Microaggressions: Creating a Taxonomic Database of Abusive Online Behavior", January 2018.
- Senior Member of ACM, December 2017.
- 2nd place among 14 teams at the Technologically Assisted Reviews (TAR) in Empirical Medicine task of the 2017 CLEF lab on eHEALTH. In collaboration with BSc student A. Anagnostou and PhD student A. Lagopoulos. Similar position in the 2018 version.
- ECML PKDD 2017 Test of Time Award for the paper "Random k-Labelsets: An Ensemble Method for Multilabel Classification" presented at ECML PKDD 2007. In collaboration with Dr. I. Vlahavas.
- Best paper award at the 2014 Brazilian Conference on Intelligent Systems (BRACIS 2014) for the paper "Label Construction for Multi-Label Feature Selection" by Newton Spolaor, Maria Carolina Monard, Grigorios Tsoumakas and Huei Lee.
- 1st place at the large-scale online biomedical semantic indexing challenge organized in 2013 by the European FP7 research project BioASQ, outweighing the state-of-the-art operational system of the National Library of Medicine and the approaches of several teams, including Mayo Clinic and the National Center for Biotechnology Information. In collaboration with Prof. Ioannis Vlahavas and US company Atypon. In 2014-2017 we achieved the 2nd place, as well as similarly good positions in other tasks (grant extraction, question answering), in collaboration with several PhD students.
- 8th place at the bird classification challenge organized by the 9th IEEE international workshop on machine learning for signal processing (MLSP 2013) and hosted by Kaggle.
- 1st place at the concept-based retrieval subtask of the photo annotation task of ImageCLEF 2011. In collaboration with MSc student Kostantinos Sechidis and PhD student Eleftherios Spyromitros-Xioufis.
- 2nd place at the music instruments recognition track of the ISMIS 2011 international contest on music information retrieval.

Action Editor

- Data Mining and Knowledge Discovery, Springer, 2019-today.

¹ <https://www.crowdfunder.com/ai-for-everyone-challenge/>

Editorial Board Member

- Data Mining and Knowledge Discovery, Springer, Editorial Board Member, 2016-2018.
- Frontiers of Computer Science, Springer, 2019-today.

Conference Organization

- ACML 2018 tutorials co-chair together with Liwei Wang
- SETN 2016 workshops/tutorials chair.
- WISE 2014 challenge co-chair together with Apostolos Papadopoulos and Weining Qian.
- ECML PKDD 2012 publicity chair.
- ECML PKDD 2011 publicity chair together with Annalisa Appice.

Workshop Organization

- "Big Multi-Target Prediction (BigTargets)" at the ECML PKDD 2015 conference in Porto, Portugal, together with Willem Waegeman, Krzysztof Dembczynski, Tapio Pahikkala, Antti Airola, Giorgio Valentini and Massih-Reza Amini.
- "Learning from Multi-Label Data (MLD'10)" at the ICML 2010 conference in Haifa, Israel, together with Min-Ling Zhang and Zhi-Hua Zhou.
- "Learning from Multi-Label Data (MLD'09)" at the ECML PKDD 2009 conference in Bled, Slovenia, together with Min-Ling Zhang and Zhi-Hua Zhou.
- "Mining Social Data (MSODA'08)" at the ECAI 2008 conference in Patras, Greece, together with Alexandros Nanopoulos.

Tutorials

- "Mining Complex Dynamic Data" at the ECML PKDD 2011 conference in Athens, Greece, together with Myra Spiliopoulou, Irene Ntoutsi, Arthur Zimek and Hans-Peter Kriegel.
- "Learning from Multi-Label Data" at the ECML PKDD 2009 conference in Bled, Slovenia, together with Min-Ling Zhang and Zhi-Hua Zhou.

Special Issues

- "Learning from Multi-Label Data", Machine Learning 88(1-2), July 2012, together with Min-Ling Zhang and Zhi-Hua Zhou.
- "ECAI'08 Workshop on Mining Social Data", Int. Journal on Data Warehousing and Mining 6(1), 2010, together with Alexandros Nanopoulos

Selected Journal Paper Review Invitations

- *Journal of Machine Learning Research, Machine Learning Journal, Neurocomputing, Data Mining and Knowledge Discovery, IEEE Transactions on Neural Networks and Learning Systems, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Pattern Analysis and Machine Intelligence.*

Selected Programme Committee Memberships

- NeurIPS 2018
- Knowledge Discovery in Databases (KDD) 2019, 2018, 2016, 2015, 2011, 2010
- IEEE International Conference on Data Mining (ICDM) 2018, 2016, 2015, 2014
- SIAM International Conference on Data Mining (SDM) 2017, 2016, 2015, 2013
- European Conference on Machine Learning & Principles and Practice of Knowledge Discovery in Databases (ECML PKDD) 2018, 2016, 2015, 2014, 2013, 2012, 2011
- International Conference on Machine Learning (ICML) 2014, 2013, 2012, 2010
- Asian Conference on Machine Learning (ACML) 2018 SPC, 2017 SPC, 2014, 2012
- International Joint Conference on Artificial Intelligence (IJCAI) 2019 SPC, 2018 SPC, 2017 SPC, 2015, 2013, 2011
- European Conference on Artificial Intelligence (ECAI) 2018 SPC, 2014, 2012
- AAAI 2018 SPC, 2013, 2012

8. Academic Activities

Supervision of PhD Theses

1. Yannis Papanikolaou, Machine Learning Techniques for Semantic Text Indexing, 03/2014 – 9/2018.
2. Eirini Papagianopoulou, Knowledge Discovery from Linked Open Data, 05/2014 – today.
3. Dimitris Dimitriadis, Text Mining and Natural Language Processing, 05/2015 – today.
4. Athanasios Lagopoulous, Web Usage Mining, 03/2017 – today.
5. Bin Liu, Machine Learning and Knowledge Discovery, 07/2017 – today.
6. Anastasios Nentidis, Biomedical Knowledge Discovery, 05/2018 – today.
7. Despoina Christou, Natural Language Processing, 9/2018 – today.

External examiner of international PhD theses

- Arnaud Joly, “Exploiting Random Projections and Sparsity with Random Forests and Gradient Boosting Methods”, University of Liege, Belgium, March 2017.
- Jesse Read, “Scalable Multi-Label Classification”, Department of Computer Science, University of Waikato, New Zealand, September 2010.
- Daniel Hernandez-Lobato, “Prediction Based on Averages over Automatically Induced Learners: Ensemble Methods and Bayesian Techniques”, Escuela Politécnica Superior, Universidad Autónoma de Madrid, Spain, January 2010.

Host of PhD students

- Konstantinos Pliakos, KU Leuven, 1/2018 – 6/2018.
- Newton Spolaor, University of São Paulo at São Carlos, 4/2013 – 9/2013.
- Everton Alvares Cherman, University of São Paulo at São Carlos, 6/2012 – 10/2012.
- William Groves, University of Minnesota, 7/2011 – 8/2011.

9. Research Interests

My research interests belong to the areas of Machine Learning and Knowledge Discovery in Databases. In specific, I have worked in the past/I am still working on the following topics:

- *Learning from Multi-Target Data*. Development of efficient and effective algorithms for predictive modelling from multi-target data (e.g. text, web, biology, music, image/video). Papers: J6, J14, J15, J18, J20, J22, J25, J26, J28, A6, C15, C19, C24, C26, C30, C31, C32, C34, C35, C37, C39, C47, C51, C52, C53, C58, C67.
- *Ensemble Methods*. Development of algorithms for the combination of multiple predictive models with the aim of increasing predictive accuracy. Papers: J3, J10, J11, J13, J19, A5, C2, C9, C14, C18, C20, C22, C33, C48.
- *Text Mining and Natural Language Processing*. Development of algorithms for learning from textual data, including text streams and their challenges (e.g. concept drift). Some of the techniques focus on semantic indexing, information retrieval, keyphrase extraction and question answering. Papers: J8, J12, J24, J30, A4, C11, C16, C17, C21, C43, C49, C54, C57, C59, C61, C62, C63, C64, C65.
- *Learning for Planning*. Development of adaptive planning systems with the aid of machine learning techniques. Papers: J2, A3, C5, C6, C7, C8, C10.
- *Distributed Data Mining*. Development of algorithms that learn from geographically distributed databases. Algorithms focus on: a) discovering useful knowledge about the similarities and differences between the distributed databases, and b) construction of predictive models with high accuracy. Papers: J1, J4, A2, C3, C4, E1.
- *Reinforcement Learning*. Development of algorithms for efficient reinforcement learning, by utilizing transfer learning techniques. Papers: J17, C28, C36.
- *Applications*. Application of machine learning algorithms for the analysis of real-world data (biology, environment, music, software engineering, recommender systems), with the aim of bringing out their practical value. Papers: J5, J7, J9, J16, J21, J23, J27, J29, A1, C1, C12, C13, C23, C25, C27, C29, C40, C41, C42, C44, C45, C55, C56, C60, C66.

10. Publications

I have edited 1 volume of papers and published 2 theses and 104 papers (6 chapters in books, 30 journal articles, 1 encyclopedia lemma and 67 papers in international conference/workshop proceedings).

Theses

- T1. Tsoumakas, G. (2000) "A Knowledge Based System for Rock Fracture Classification in Deep Boreholes", M.Sc. Thesis, Division of Informatics, University of Edinburgh, U.K., September 2000.
- T2. Tsoumakas, G. (2005) "Machine Learning for the Fusion of Multiple, Distributed Intelligent Systems", PhD Thesis (in Greek), Department of Informatics, Aristotle University of Thessaloniki, July 2005.

Edited Volumes

- V1. Iliadis, L., Maglogiannis, I., Tsoumakas, G., Vlahavas, I., Bramer, M. (2009) "Artificial Intelligence Applications and Innovations: Proceedings of the 5th IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI'2009)", April 23-25, 2009, Vol. 2962009, VIII, ISBN: 978-1-4419-0220-7.

Book Chapters

- A1. Tsoumakas, G., Vlahavas, I. (2001) "Land Evaluation - An Artificial Intelligence Approach", in *Environmental Information Systems in Industry and Public Administration*, C. Rautenstrauch and S. Patig (eds.), Ch. 9, pp. 158-166, Idea Group Publishing.
- A2. Tsoumakas, G., Bassiliades, N., Vlahavas, I. (2004) "A Knowledge-based Web Information System for the Federation of Distributed Classifiers", in *Web Information Systems*, D. Taniar and W. Rahayu (eds.), Ch. 8, pp. 271-308, Idea Group Publishing.
- A3. Vrakas, D., Tsoumakas, G., Bassiliades, N., Vlahavas, I. (2005) "Machine Learning for Adaptive Planning", in *Intelligent Techniques for Planning*, I. Vlahavas and D. Vrakas (eds.), Ch. 3, pp. 90-120, Idea Group Publishing.
- A4. Katakis, I., Tsoumakas, G., Vlahavas, I. (2006) "Email Mining: Emerging Techniques for Email Management", in *Web Data Management Practices: Emerging Techniques and Technologies*, A. Vakali and G. Pallis (eds.), Ch. 10, pp 219-241, Idea Group Publishing.
- A5. Tsoumakas, G., Partalas, I., Vlahavas, I. (2009) "An Ensemble Pruning Primer", in *Applications of Supervised and Unsupervised Ensemble Methods*, G. Valentini and O. Okun (eds.), Studies in Computational Intelligence, Volume 245, Springer, pp 1-13.
- A6. Tsoumakas, G., Katakis, I., Vlahavas, I. (2010) "Mining Multi-Label Data", Part 6, Chapter 34, in *Data Mining and Knowledge Discovery Handbook*, L. Rokach and O. Maimon (eds.), Springer, pp. 667 – 285.

Journal Articles

- J1. Tsoumakas, G., Angelis L., Vlahavas, I. (2004) "Clustering Classifiers for Knowledge Discovery from Physically Distributed Databases", *Data & Knowledge Engineering*, 49(3), pp. 223-242, Elsevier.
- J2. Vrakas, D., Tsoumakas, G., Bassiliades, N., Vlahavas, I. (2005) "HAP_{RC}: An Automatically Configurable Planning System", *AI Communications*, 18(1), pp. 41-60, IOS Press.
- J3. Tsoumakas, G., Angelis, L., Vlahavas, I. (2005) "Selective Fusion of Heterogeneous Classifiers", *Intelligent Data Analysis*, 9(6), pp. 511-525, IOS Press.
- J4. Tsoumakas, G., Vlahavas, I. (2007) "A Scalable and Interoperable System for Classifier Sharing and Fusion", *Expert Systems with Applications*, 33(3), pp. 716-724, Elsevier.
- J5. Vrakas, D., Tsoumakas, G., Kokkoras, F., Bassiliades, N., Vlahavas, I., Anagnostopoulos, D. (2007) "PASER: A Curricula Synthesis System based on Automated Problem Solving", *International Journal on Teaching and Case Studies (IJTCS)*, 1(1/2), pp. 159-170, Inderscience.
- J6. Tsoumakas, G., Katakis, I. (2007) "Multi-Label Classification: An Overview", *International Journal of Data Warehousing and Mining*, 3(3), pp. 1-13, Idea Group Publishing.

- J7. Bibi, S., Tsoumakas, G., Vlahavas, I., Stamelos, I. (2008) "Regression via Classification applied on Software Defect Prediction", *Expert Systems with Applications*, 34(3), pp 2091-2101, Elsevier.
- J8. Katakis, I., Tsoumakas, G., Banos, E., Bassiliades, N., Vlahavas, I. (2008) "An Adaptive Personalized News Dissemination System", *Journal of Intelligent Information Systems*, 32(2), pp. 191-212, Springer.
- J9. Hatzikos, E.V., Tsoumakas, G., Tzanis, G., Bassiliades, N., Vlahavas, I. (2008) "An Empirical Study on Sea Water Quality Prediction", *Knowledge Based Systems*, 21(6), pp. 471-478, Elsevier.
- J10. Partalas, I., Tsoumakas, G., Hatzikos, E.V., Vlahavas, I. (2008) "Greedy Regression Ensemble Selection: Theory and an Application to Water Quality Prediction", *Information Sciences*, 178(20), pp. 3867-2879, Elsevier.
- J11. Partalas, I., Tsoumakas, G., Vlahavas, I. (2009) "Pruning an Ensemble of Classifiers via Reinforcement Learning", *Neurocomputing*, 72(7-9), pp. 1900-1909, Elsevier.
- J12. Katakis, I., Tsoumakas, G., Vlahavas, I. (2010) "Tracking Recurring Contexts using Ensemble Classifiers: An Application to Email Filtering", *Knowledge and Information Systems*, 22(3), pp. 371-391.
- J13. I. Partalas, G. Tsoumakas, I. Vlahavas, (2010) "An Ensemble Uncertainty Aware Measure for Directed Hill Climbing Ensemble Pruning", *Machine Learning*, 81(3), pp. pp. 257-282.
- J14. Tsoumakas, G., Katakis, I., Vlahavas, I. (2011) "Random k-Labelsets for Multi-Label Classification", *IEEE Transactions on Knowledge and Data Engineering*, 23(7), pp. 1079-1089, 2011
- J15. Tsoumakas, G., Spyromitros-Xioufis, E., Vilcek, J., Vlahavas, I. (2011) Mulan: A Java Library for Multi-Label Learning, *Journal of Machine Learning Research*, 12, pp. 2411-2414
- J16. Trohidis, K., Tsoumakas, G., Kalliris, G., Vlahavas, I. (2011) "Multi-label classification of music by emotion", *EURASIP Journal on Audio, Speech, and Music Processing* 2011, 2011:4, Published: 18 September 2011
- J17. Fachantidis, A., Partalas, I., Tsoumakas, G., Vlahavas, I. (2013) "Transferring Task Models in Reinforcement Learning Agents", *Neurocomputing*, 107, pp. 23-32
- J18. Spyromitros-Xioufis, E., Papadopoulos, S., Kompatsiaris, I., Tsoumakas, G., Vlahavas, I. (2014) "A Comprehensive Study over VLAD and Product Quantization in Large-scale Image Retrieval", *IEEE Transactions on Multimedia*, 16(6), pp.1713-1728
- J19. Markatopoulou, F., Tsoumakas, G., Vlahavas, I. (2015) "Dynamic Ensemble Pruning based on Multi-Label Classification", *Neurocomputing*, Elsevier, Volume 150, Part B, pp. 501-512
- J20. Spolaôr, N., Monard, M.C., Tsoumakas, G., Lee, H.D. (2015) A systematic review of multi-label feature selection and a new method based on label construction, *Neurocomputing*, Volume 180, pp. 3-15.
- J21. Kavakiotis, I., Triantafyllidis, A., Ntelidou, D., Alexandri, P., Megens, H.J., Crooijmans, R.P., Groenen, M.A., Tsoumakas, G., Vlahavas, I. (2015) TRES: Identification of Discriminatory and Informative SNPs from Population Genomic Data. *Journal of Heredity*, Volume 106(5):672-6.
- J22. Spyromitros-Xioufis, E., Tsoumakas, G., Groves, W., Vlahavas, I. (2016) Multi-Target Regression via Input Space Expansion: Treating Targets as Inputs, *Machine Learning*, Johannes Fürnkranz (Ed.), Springer, 2016.
- J23. Kavakiotis I., Xochelli A., Agathangelidis A., Tsoumakas G., Maglaveras N., Stamatopoulos K., Hadzidimitriou A., Vlahavas I., Chouvarda I. (2016). Integrating Multiple Immunogenetic Data Sources for Feature Extraction and Mining Mutation Patterns: The Case of Chronic Lymphocytic Leukemia Shared Mutations. *BMC Bioinformatics* 17(Suppl 5):173, pp. 375-387.
- J24. Papanikolaou Y., Foulds, J., Rubin, T., Tsoumakas G. (2017). Dense Distributions from Sparse Samples: Improved Gibbs Sampling Parameter Estimators for LDA. *Journal of Machine Learning Research* 18(62), pp. 1-58.
- J25. Cherman E.A., Papanikolaou Y., Tsoumakas G., Monard M.C. (2017). Multi-Label Active Learning: Key Issues and a Novel Query Strategy. *Evolving Systems*.
- J26. Papanikolaou, Y., Tsoumakas, G., Laliotis, M., Markantonatos, N., & Vlahavas, I. (2017). Large-scale online semantic indexing of biomedical articles via an ensemble of multi-label classification models. *Journal of Biomedical Semantics*, 8(1). <https://doi.org/10.1186/s13326-017-0150-0>.
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11. Citations

According to Google Scholar my papers have attracted more than 9000 citations and I have an h-index of 39. More information: <https://scholar.google.gr/citations?user=PIGKUhwAAAAJ&hl=en&oi=sra>

12. Other Information

Acceptance ratio of selected conferences

Paper	Conference	Accepted	Ratio	Perc.
C19	18 th European Conference on Machine Learning (ECML 2007)	54/595	1:11	9 %
C9	15 th European Conference on Machine Learning (ECML 2004)	45/312	1:6.9	15 %
C39	22 nd International Joint Conference on Artificial Intelligence (IJCAI 2011)	227/1325	1:5.8	17 %
C52	KDD 2015	160/819	1:5.1	20 %
C37	ECML PKDD 2011	121/599	1:5	20 %
C20	18 th European Conference on Artificial Intelligence (ECAI 2008)	121/561	1:4.6	22 %
C48	ECML PKDD 2014	115/483	1:4.2	24 %
C4	15 th European Conference on Artificial Intelligence (ECAI 2002)	140/505	1:3.6	28 %
C8	16 th European Conference on Artificial Intelligence (ECAI 2004)	181/652	1:3.6	28 %