Curriculum Vitae

Andreas Argyriou

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Academic Employment

2012 – present	RBUCE-UP Research Fellow, Ecole Centrale de Paris, Center for Learning and Visual Computing / DIOCLES
2012	Research Fellow, Katholieke Universiteit Leuven, Department of Electrical Engineering
2009 - 2012	Research Assistant Professor, Toyota Technological Institute at Chicago
2007 - 2009	Research Fellow, University College London, Department of Computer Science, Centre for Computational Statistics and Machine Learning

Education

2004–2007	PhD in Computer Science, University College London (awarded April 28, 2008) Thesis supervisor: Massimiliano Pontil
2003-2004	MSc in Intelligent Systems, University College London Thesis supervisor: Zoubin Ghahramani
1991-1997	MEng in Electrical Engineering and Computer Science, BSc in Computer Science and Engineering, Massachusetts Institute of Technology

Funding

Research Based University Chairs of Excellence, Universities of Paris (RBUCE-UP) 2-year fellowship, 2012. Host: Ecole Centrale Paris, DIOCLES.
Topic: Machine Learning and Optimization for Computer Vision Problems.

Academic Service

Area chair for the Neural Information Processing Systems (NIPS) 2011 program committee.
Regular reviewer for the Journal of Machine Learning Research, Machine Learning, Neural Information Processing Systems (NIPS), International Conference on Machine Learning (ICML), Conference on Learning Theory (COLT), Artificial Intelligence and Statistics (AISTATS); have reviewed for Artificial Intelligence, IEEE Transactions on Image Processing, EURASIP Journal on Advances in Signal Processing, Pattern Analysis & Applications Journal, Statistics and Computing, Advances in Computational Mathematics, Transactions on Pattern Analysis and Machine Intelligence.
Member of the program committees of OPT 2010-2012, International Workshops on Optimization for Machine Learning (NIPS).
Member of the organizing committee of Tensors, Kernels, and Machine Learning Workshop, Whistler B.C., December 2010.

Teaching Experience

Machine Learning. Toyota Technological Institute at Nagoya, spring 2011. Contributed lectures (remotely).
TTIC 31020 - Introduction to Statistical Machine Learning. Toyota Technological Institute at Chicago, autumn
2010. Contributed lectures.
GI13/M050 - Advanced Topics in Machine Learning. MSc in Intelligent Systems, University College London,
spring 2009. Constructed and delivered one half of the course.

Journal Publications (Google Scholar citations included in brackets)

1. On Spectral Learning. A. Argyriou, C. A. Micchelli and M. Pontil. Journal of Machine Learning Research, 11:935-953, 2010. [19]
2. When Is There a Representer Theorem? Vector versus Matrix Regularizers. A. Argyriou, C. A. Micchelli and M. Pontil. Journal of Machine Learning Research, 10:2507-2529, 2009. [25]
3. Convex Multi-Task Feature Learning. A. Argyriou, T. Evgeniou and M. Pontil. Machine Learning, 73, 3, 243-272, 2008. [266]

Refereed Conference Proceedings

1. Sparse Prediction with the k-Support Norm. A. Argyriou, R. Foygel and N. Srebro. Advances in Neural Information Processing Systems (NIPS), 2012.
2. A General Framework for Structured Sparsity via Proximal Optimization. L. Baldassarre, J. Morales, A. Argyriou and M. Pontil. AI & Statistics, 2012. [2]
3. Exploiting Unrelated Tasks in Multi-Task Learning. B. Romera-Paredes, A. Argyriou, N. Berthouze and M. Pontil. AI & Statistics, 2012.
4. An Algorithm for Transfer Learning in a Heterogeneous Environment. A. Argyriou, A. Maurer and M. Pontil. European Conference on Machine Learning (ECML), 2008. [29]
5. A Spectral Regularization Framework for Multi-Task Structure Learning. A. Argyriou, C. A. Micchelli, M. Pontil and Y. Ying. Advances in Neural Information Processing Systems (NIPS), 2007. [81]
6. Multi-Task Feature Learning. A. Argyriou, T. Evgeniou and M. Pontil. Advances in Neural Information Processing Systems (NIPS), 2006. [285]
7. A DC-Programming Algorithm for Kernel Selection. A. Argyriou, R. Hauser, C. A. Micchelli and M. Pontil. International Conference on Machine Learning (ICML), 2006. [75]
8. Combining Graph Laplacians for Semi-Supervised Learning. A. Argyriou, M. Herbster and M. Pontil. Advances in Neural Information Processing Systems (NIPS), 2005. [64]
9. Learning Convex Combinations of Continuously Parameterized Basic Kernels. A. Argyriou, C.A. Micchelli and M. Pontil. Conference on Learning Theory (COLT), 2005. [67]

Preprints

1. PRISMA: PRoximal Iterative SMoothing Algorithm. F. Orabona, A. Argyriou and N. Srebro. 2012.
2. A Regularization Approach for Prediction of Edges and Node Features in Dynamic Graphs. E. Richard, N. Vayatis, A. Argyriou and T. Evgeniou. 2011.
3. Efficient First Order Methods for Linear Composite Regularizers. A. Argyriou, C. A. Micchelli, M. Pontil, L. Shen and Y. Xu. 2010. [7]
4. A Study of Convex Regularizers for Sparse Recovery and Feature Selection. A. Argyriou. 2010. [1]

Theses

- Learning to Integrate Data from Different Sources and Tasks. PhD Thesis, Department of Computer Science, University College London, 2007.
- Efficient Approximation Methods for Harmonic Semi-Supervised Learning. MSc Intelligent Systems Thesis, University College London, 2004. [5]

Invited Talks

OPTEC Workshop on Moving Horizon Estimation and System Identification, K. U. Leuven, 2012; Spring Research Conference on Statistics in Industry and Technology, Northwestern University, 2010; INSPIRE 2010 Conference on Information Representation and Estimation, University College London; Inverse Problems in Data Driven Modeling, Radon Institute, Linz, 2010; NIPS Workshop - Kernels for Multiple Outputs and Multitask Learning: Frequentist and Bayesian Points of View, Whistler, Canada, 2009; European Conference on Operational Research, Bonn, 2009; Sparsity in Machine Learning and Statistics Workshop, Cumberland Lodge, UK, 2009; Kernel Learning Workshop in Neural Information Processing Systems Conference, Whistler, Canada, 2008; Open House on Multi-Task and Complex Outputs Learning, University College London, 2006.

École des Mines Paris; Télécom ParisTech; University of Exeter; Ecole Normale Supérieure de Cachan; Xerox Research Centre Europe; University of Chicago; City University of Hong Kong; Sun Yat-Sen University; INRIA, Laboratoire d' Informatique de l' Ecole Normale Supérieure; Purdue University; Max Planck Institut Informatik, Saarbrücken; Max Planck Institute for Biological Cybernetics, Tübingen; University of Bristol.

Prizes and Awards

Searchspace prize for the MSc in Intelligent Systems and best MScIS project. Microsoft Research prize for postgraduate students in Computer Science and best MSc project, 2004.
Member of Eta Kappa Nu Honor Society, 1994.
Third prize in 31st International Mathematical Olympiad, 1990.
First and second prizes in Greek Mathematical Competitions and National Mathematical Olympiads, 1987-1991.

Other Employment

Telecommunications sector (Athens, Greece, 1999-2003).
Compulsory military service (Greece, 1998-1999).

Programming Experience

Matlab, C, C++ (incl. CORBA), Scheme.