

Theophilos Papadimitriou, Associate Professor.

CONTACT INFORMATION

Department of Economics
Democritus University of Thrace
Komotini Campus, 69100, Komotini
Fax: +302531039830
Tel: +302531039553
Email: papadimi@econ.duth.gr
papadi24@gmail.com
<http://www.econ.duth.gr/personel/dep/papadimitriou/index.en.shtml>
<https://sites.google.com/site/theopapadimitriou72/>
https://www.researchgate.net/profile/Theophilos_Papadimitriou

EDUCATION

Ph.D., **1996-2000**
General Department, Polytechnic School,
Aristotle University of Thessaloniki
Dissertation: “*Motion Parameters Estimation on an Image Sequence
and Application on Frame Segmentation*”

M.Sc. (D.E.A.), A.R.A.V.I.S. **1995-1996**
University of Nice Sophia-Antipolis
Dissertation: “*Study of various Motion Estimation/Segmentation
Schemes for Video Compression*”

B. Sc., Mathematics **1990-1995**
Department of Mathematics,
Aristotle University of Thessaloniki

PROFESSIONAL EXPERIENCE

Faculty Member **2002-Present**
(Current Position: Associate Professor)
Department of Economics,
Democritus University of Thrace.

Faculty Member (Lecturer) **2004-2005**
Department of Technological Management,
University of Macedonia.

Faculty Member (Lecturer) **2000-2003**
Department of Applied Informatics,
University of Macedonia.

Faculty Member (Lecturer) **2000-2002**
Department of Economics,
Democritus University of Thrace.

**PROFESSIONAL
ACTIVITIES**
Invited Talks

- “Banking Supervision with the T-MDS: a new methodology for optimization of Economics Networks”, Ross School of Business, University of Michigan, Ann Arbor, 16.11.2015
- “T-MDS: a new methodology for monitoring Economics networks”, Department of Economics, Temple University, Philadelphia, 18.11.2015
- “A Complex Network Analysis of the U.S. Gross State Product”, European Central Bank, External Developments Division, 02.02.2016
- “T-MDS: a New Methodology for Monitoring Banking Networks”, European Central Bank, Macro Financial Linkages Division, 02.02.2016
- “T-MDS: a new methodology for monitoring Economics networks”, BETA, Faculté de Sciences Economiques et de Gestion, , Université de Strasbourg, 22.04.2016

Member IEEE (since 1997)

Financial Chairman, MLSP-2007 (*17th IEEE International Workshop on Machine Learning for Signal Processing*), Thessaloniki, Greece, Aug. 27-29, 2007.

Conference Committee Member,

- 1st International Transport Conference & 15th Special Conference of the Hellenic Operational Research Society, Alexandroupolis, October 15-16, 2015.
- DSP-2011 (*17th International Conference on Digital Signal Processing*), Corfu, Greece, Jul. 6-8, 2011.
- ICANN-2010 (*20th International Conference on Artificial Neural Networks*), Thessaloniki, Greece, Sep. 15-18, 2010.
- MLSP-2009 (*19th IEEE International Workshop on Machine Learning for Signal Processing*), Grenoble, France, Sep. 2-4, 2009.
- MLSP-2008 (*18th IEEE International Workshop on Machine Learning for Signal Processing*), Cancun, Mexico, Oct. 16-19, 2008.
- CIP-2008 (*IAPR Workshop on Cognitive Information Processing*), Santorini, Greece, June 9-10, 2008

Reviewer

- *IEEE Transactions on Circuits and Systems for Video Technology* (before 2007)
 - *IEEE Transactions on Intelligent Transportation Systems* (before 2007)
 - *IEEE Transactions on Circuits and Systems I* (before 2007)
 - *IEEE Transactions on Neural Networks and Learning Systems* 2013
 - *IEEE Transactions on Neural Networks* 2008
 - *IEEE Transactions on Image Processing* 2007
 - *IEEE Transactions on Signal Processing* 2010 (2), 2011
 - *IEEE Transactions on Knowledge and Data Engineering* 2007, 2009
 - *IEEE Signal Processing Letters* 2009, 2010 (2), 2011
 - *The Journal of Signal Processing Systems* 2008, 2010
 - *Digital Signal Processing* 2013
-

-
- *Journal of Applied Mathematics* 2013
 - *Physica A: Statistical Mechanics and its applications* 2014, 2015, 2016
 - *Economic Notes* 2014
 - *Energy Economics* 2015
 - *International Economics* 2015
 - *Economics Bulletin* 2015
 - *Operational Research: An International Journal* 2015
-

RESEARCH EXPERIENCE

Project Coordinator **2012-2015**

Thalis II Project, "Study and Forecasting of Economic Data using Machine Learning Methods", Financed by European Funds, MIS 380292 (600,000 €).

Project Member **2010**

Project "Study on the Economic and Social Impacts of the project "Burgas-Alexandroupolis pipeline 'to local communities of the prefecture of Evros", Financed by the Prefecture of Evros.

Project Member **2006 – 2007**

TEMPUS Project "COMMERCEDUC – Lifelong Education – Trade and Distribution Professions", in cooperation with the Universities of Grenoble, France and Ekaterinburg, Russia.

Project Member **2005 – 2007**

ARCHIMEDES I Project "Advanced methods for blind signal processing and their implementation on a grid".

Project Member **2004 – 2007**

ARCHIMEDES I Project "Analysis and copyright protection of multidimensional digital data".

Project Member **2003 – 2008**

Project EPEAEK (Operational Program for Education and Initial Vocational Training) "Reforming Undergraduate Curriculum at the Democritus University of Thrace".

Project Member **1997 – 2000**

Project EPEAEK (Operational Program for Education and Initial Vocational Training) "Reforming Undergraduate Curriculum at the University of Macedonia".

Current Ph.D. Students

- Anna Agrapetidou
- Themis Stathakis

Former Ph.D. Students

- Dr. Efthimia Chrysanthidou (2015)
 - Dr. Vasilios (Bill) Plakandaras (2015) Advisor
 - Dr. Markos Zampoglou (2011)
-

- Dr. Anna Toubalidou (2010)

Coordinator of more than 40 M.Sc. Dissertations.

**ADMINISTRATIVE
EXPERIENCE**

Member of the Post-Graduate Committee **2007-present**
Department of Informatics, Democritus University of Thrace.

Member of the University Research Committee **2015-present**
Democritus University of Thrace.

**TEACHING
EXPERIENCE**

Informatics 1 **2000-present**
Undergraduate Course, Department of Informatics, Democritus University of Thrace.

Informatics 2 **2001-present**
Undergraduate Course, Department of Informatics, Democritus University of Thrace.

Operations Research **2005-present**
Undergraduate Course, Department of Informatics, Democritus University of Thrace.

Data Analysis **2006-present**
Postgraduate Course, Master in Business Administration, Department of Informatics, Democritus University of Thrace.

Management and Forecasting **2007-present**
Postgraduate Course, Master in Business Administration, Department of Informatics, Democritus University of Thrace.

E-government **2015-present**
Postgraduate Course, Master in Local and Regional Development and Administration, Department of Economics, Aristotle University of Thessaloniki.

Management Information Systems **2010-2013**
Postgraduate Course, Master in Business Administration, Department of Informatics, Democritus University of Thrace.

Decision Making Models **2010-2014**
Undergraduate Course, Department of Informatics, Democritus University of Thrace.

Decision Making Theory **2003-2004**
Undergraduate Course, Department of Informatics, Democritus University of Thrace.

Special Subjects of Econometrics **2010-2013**

Undergraduate Course, Department of Informatics, Democritus University of Thrace.

Telecommunication Systems **2004-2005**
Undergraduate Course, Department of Technological Managements, University of Macedonia.

Introduction to Digital Image Processing **2000-2003**
Undergraduate Course, Department of Applied Informatics, University of Macedonia.

Introduction to Digital Video Processing **2002-2003**
Undergraduate Course, Department of Applied Informatics, University of Macedonia.

PUBLICATIONS

Summary

40 journal papers
53 conference papers
4 book chapters
334 citations according to google scholar

Journal Papers

1. G.A. Sarantitis, **T. Papadimitriou**, P. Gogas, “A Network Analysis of the United Kingdom’s Consumer Price Index”, accepted for publication in Computational Economics.
 2. G.A. Papakostas, K.I. Diamantaras, **T. Papadimitriou**, “Parallel Pattern Classification Utilizing GPU-Based Kernelized Slackmin Algorithm”, accepted in Journal of Parallel and Distributed Computing.
 3. K. Goulianas, A. Margaritis, I. Refanidis, K. Diamantaras, **T. Papadimitriou**, “A Back Propagation-Type Neural Network Architecture for Solving the Complete nxn Nonlinear Algebraic System of Equations”, Advances in Pure Mathematics, 2016, 6, 455-480.
 4. P. Gogas, **T. Papadimitriou**, V. Plakandaras, R. Gupta, “The informational content of the term spread in forecasting the U.S. inflation; a nonlinear approach”, accepted for publication in Journal of Forecasting, DOI: 10.1002/for.2417.
-

-
5. P. Gogas, **T. Papadimitriou**, M. Matthaïou, “Banking Supervision using the Threshold-Minimum Dominating Set”, *Physica A*, 451, 2016, 23-35.
 6. N. Antonakakis, P. Gogas, **T. Papadimitriou**, G. Sarantitis, “International Business Cycle Synchronization since the 1870s: Evidence from a novel network approach”, *Physica A*, 447, 2016, 286-296.
 7. P. Gogas, **T. Papadimitriou**, E. Chrysanthidou, “Yield Curve Point Triplets in Recession Forecasting”, *International Finance*, 18:2, 2015, pp. 207-226.
 8. V. Plakandaras, **T. Papadimitriou**, P. Gogas, “Forecasting daily and monthly exchange rates with machine learning techniques”, *Journal of Forecasting*, Vol. 34, no. 7, pp. 560-573, November, 2015.
 9. V. Plakandaras, P. Gogas, R. Gupta, **T. Papadimitriou**, “US inflation dynamics on long range data”, *Applied Economics*, Vol. 47, no. 36, pp. 3874 – 3890, 2015.
 10. I. Pragidis, P. Gogas, V. Plakandaras, **T. Papadimitriou**, “Asymmetric Fiscal Policy Shocks”, *Journal of Economic Asymmetries*, 12 (2015), 22-33.
 11. V. Plakandaras, R. Gupta, P. Gogas, **T. Papadimitriou**, “Forecasting the US real house index”, *Economic Modelling*, Vol. 45, pp. 259-267, February, 2015.
 12. **T. Papadimitriou**, P. Gogas, G. Sarantitis, “Convergence of European Business Cycles: A Complex Networks Approach”, *Computational Economics*, Vol. 47, pp. 97-119.
 13. V. Plakandaras, **T. Papadimitriou**, P. Gogas, K.I. Diamantaras “Market Sentiment and Exchange Rate Directional Forecasting”, *Algorithmic Finance*, vol. 4, no. 1-2, pp. 69-79, 2015
 14. P. Gogas, **T. Papadimitriou**, A. Agrapetidou, “Forecasting Bank Credit Ratings”, *Journal of Risk Finance*, Vol. 15, No. 2, 2014, pp. 195-209.
 15. **T. Papadimitriou**, P. Gogas, E. Stathakis, “Forecasting Energy Markets using Support Vector Machines”, *Energy Economics*, Vol. 44, pp. 135-142, July 2014.
 16. P. Gogas, **T. Papadimitriou**, M. Matthaïou, E. Chrysanthidou, “Yield Curve and Recession Forecasting in a Machine Learning Framework”, *Computational Economics*, Vol. 45, no. 4, pp 635-645, April 2015.
 17. P. Gogas, V. Plakandaras, **T. Papadimitriou**, “Public Debt and Private Consumption in OECD countries”, *Journal of Economic Asymmetries*, Vol 11, no. 1, June, 2014, pp. 1-7.
-

-
18. A. Margaris, K. Goulianas, K.I. Diamantaras, **T. Papadimitriou**, “Estimating 2-cycle Fixed Points of Henon Map using Backpropagation Neural Networks”, *Mathematical Methods in Applied Sciences*, accepted for publication, vol 38, no 2, pp. 263-273, 2015
 19. P. Gogas, **T. Papadimitriou**, G. Sarantitis, “Testing Purchasing Power Parity theory in a DFA Framework and Rolling Hurst Exponent: the case of 23 OECD Countries”, *Applied Financial Economics*, Vol. 23, no 17, pp. 1399-1406, 2013.
 20. **T. Papadimitriou**, P. Gogas, V. Plakandaras, J.C. Mourmouris, “Forecasting the Insolvency of U.S. Banks using Support Vector Machines (SVM) based on Local Learning Feature Selection”, *International Journal of Computational Economics and Econometrics*, Vol. 3, No. 1/2, pp. 83-90, 2013.
 21. **T. Papadimitriou**, P. Gogas, B.M. Tabak, “Complex Networks and Banking Systems Supervision”, *Physica A*, Vol. 392, pp. 4429-4434, Oct. 2013.
 22. P. Gogas, **T. Papadimitriou** and E. Takli, (2013) "Comparison of simple sum and Divisia monetary aggregates in GDP forecasting: a support vector machines approach", *Economics Bulletin*, Vol. 33, No. 2, pp. 1101-1115, 2013.
 23. V. Plakandaras, **T. Papadimitriou**, and P. Gogas, "Directional forecasting in financial time series using support vector machines: The USD/Euro exchange rate", *Journal of Computational Optimization in Economics and Finance*, 5 (2), 2013.
 24. K. I. Diamantaras, G. Vranou, **T. Papadimitriou**, “Multi-Input Single-Output Nonlinear Blind Separation of Binary Sources”, *IEEE Transactions on Signal Processing*, Vol. 61, no. 11, pp. 2866-2873, 2013.
 25. E. Chrysanthidou, P. Gogas, and **T. Papadimitriou**, "Optimum Currency Areas within the US and Canada: A Data Analysis Approach", *Journal of Computational Optimization in Economics and Finance*, 5 (1), 2013.
 26. **T. Papadimitriou**, “Financial Institutions Clustering based on their Financial Statements using Multiple Correspondence Analysis”, *Economics and Finance Notes*, Vol. 1, no. 2, pp. 119 – 133, 2012
 27. P. Gogas, J.C. Mourmouris, **T. Papadimitriou**, “Economic Viability and Macroeconomic Impact of the Burgas – Alexandroupolis Pipeline”, *International Journal of Engineering Management and Economics*, Vol. 2 No. 1 Feb 2012, pp 37-62.
 28. K. I. Diamantaras, **T. Papadimitriou**, “Blind Deconvolution of Multi-Input Single-Output Systems using the Distribution of Point Distances”, *Journal of Signal Processing Systems*, Vol 65, No 3, 525-534, Oct 2011
-

-
29. A. Toubalidou, **T. Papadimitriou**, and J.C. Mourmouris, "Unemployment in Greece and Level of Education", Data Analysis Bulletin, no. 11, 2010, pp 39-51.
 30. M. Zampoglou, **T. Papadimitriou**, K. I. Diamantaras, "From Low-Level Features to Semantic Classes: Spatial and Temporal Descriptors for Video Indexing", Journal of Signal Processing Systems, Vol 61, No 1, 75-83, Oct 2010.
 31. K. I. Diamantaras, **T. Papadimitriou**, "Histogram based Blind Identification and Source Separation from Linear Instantaneous Mixtures", Lecture Notes in Computer Science, Vol 5441, pp. 227-234, Springer Verlag, 2009.
 32. A. Markos, G. Menexes, **T. Papadimitriou**, "Multiple Correspondence Analysis for "Tall" Data Sets", Intelligent Data Analysis, Vol. 13, No. 6, 2009, pp. 873-885.
 33. K. I. Diamantaras, **T. Papadimitriou**, "Applying PCA Neural Models for the Blind Separation of Signals", Neurocomputing, Vol. 73, Dec. 2009, pp. 3-9.
 34. K. I. Diamantaras, **T. Papadimitriou**, "An Efficient Subspace Method for the Blind Identification of Multichannel FIR Systems", IEEE Transactions on Signal Processing, Vol. 56, No. 12, December 2008, pp. 5833-5839.
 35. M. Zampoglou, **T. Papadimitriou**, I. Papadimitriou, "Color based Video Sequences Hierarchical Classification", Data Analysis Bulletin, no. 9, 2008, pp 56-68.
 36. K. I. Diamantaras, **T. Papadimitriou**, "Blind Deconvolution of Multi-Input Single-Output Systems with Binary Sources", IEEE Transactions on Signal Processing, Vol. 54, No. 10, Oct 2006, pp. 3720-3731.
 37. K. I. Diamantaras, **T. Papadimitriou**, "Subspace-Based Channel Shortening for the Blind Separation of Convolutional Mixtures", IEEE Transactions on Signal Processing, Vol. 54, No. 10, Oct 2006, pp. 3669-3677.
 38. K. I. Diamantaras, **T. Papadimitriou**, "Blind Deconvolution of SISO Systems with Binary Sources based on Recursive Channel Shortening", Lecture Notes in Computer Science, Vol 3195, pp. 548-553, Springer Verlag, 2004.
 39. **T. Papadimitriou**, K. I. Diamantaras, M. G. Strintzis, M. Roumeliotis, "Video Scene Segmentation using Spatial Contours and 3-D Robust Motion Estimation", IEEE Transactions on Circuits and Systems for Video Technology, Vol 14, No 4, Apr 2004, pp 485-497.
 40. **T. Papadimitriou**, K. I. Diamantaras, M. G. Strintzis, M. Roumeliotis, "Robust Estimation of Rigid Body 3-D Motion parameters based on Point
-

Correspondences", IEEE Transactions on Circuits and Systems for Video Technology, Vol 10, No 4, June 2000, pp 541-549.

Conference Papers

1. Vasilios Plakandaras, **Theophilos Papadimitriou**, Periklis Gogas, "Forecasting transportation demand in the domestic U.S. market", presented in the 15th Special Conference of the Hellenic Operational Research Society, Alexandroupoli, 15-16 October 2015.
 2. **Theophilos Papadimitriou**, Periklis Gogas, Georgios Sarantitis , "Optimization in Transportation: an application on the US airport network using Graph Theory", presented in the 15th Special Conference of the Hellenic Operational Research Society, Alexandroupoli, 15-16 October 2015.
 3. Georgios Sarantitis, **Theophilos Papadimitriou**, Periklis Gogas, "Threshold Weighted – Minimum Dominating Set (TW-MDS): An optimization technique for analyzing complex economic networks", accepted for presentation in the 27th European Conference on Operational Research, Glasgow, UK, 2015.
 4. Efthymios Sarantitis, **Theophilos Papadimitriou**, Periklis Gogas, "Forecasting Electricity Price Spikes with Support Vector Machines", accepted for presentation in the 27th European Conference on Operational Research, Glasgow, UK, 2015.
 5. Periklis Gogas, **Theophilos Papadimitriou**, Benjamin Tabak, Maria-Artemis Matthaïou, "Efficient Supervision of Banking Networks using the Multivariable Threshold Minimum Dominating Set (T-MDS): the case of Brazil", accepted for publication in 21st International Conference on Computing in Economics and Finance (CEF2015), Taipei, Taiwan, 2015.
 6. Georgios Sarantitis, **Theophilos Papadimitriou**, Periklis Gogas, "Complex Networks for Central Banks: an empirical analysis of the United Kingdom's Consumer Price Index", accepted for publication in 21st International Conference on Computing in Economics and Finance (CEF2015), Taipei, Taiwan, 2015.
 7. Efthymia Chrsanthidou, Periklis Gogas, **Theophilos Papadimitriou**, "The ability of the yield curve to forecast the output gap", 79th International Atlantic Economic Conference, Milan, March, 2015
 8. Vasilios Plakandaras, **Theophilos Papadimitriou**, Periklis Gogas, "Monetary Exchange Rate models in a Small Open Economy with
-

-
- Alternative Inflation Expectations", 79th International Atlantic Economic Conference, Milan, March, 2015.
9. **Theophilos Papadimitriou**, Periklis Gogas, and Elvira Takli, "Monetary Aggregation and GDP Forecasting in a Support Vector Regression Framework ", 78th International Economic Conference, Madrid, April, 2014.
 10. Periklis Gogas, **Theophilos Papadimitriou** and Anna Agrapetidou, "Forecasting Bank Failures", 78th International Economic Conference, Madrid, April, 2014.
 11. Periklis Gogas, **Theophilos Papadimitriou** and Efthimios Stathakis, "Forecasting German Energy Market Index within an SVM model and Hilbert Huang Transformation", 78th International Economic Conference, Madrid, April, 2014.
 12. **Theophilos Papadimitriou**, Periklis Gogas, and Georgios-Antonios Saranditis, "An Analysis of US States GSP co-movement using the Minimum Dominating Set", to appear in 2013 IEEE GlobalSIP Symposium on Signal and Information Processing in Finance and Economics, Austin (TX), 3-5 December 2013.
 13. Periklis Gogas, Efthymia Chrynasthidou, **Theophilos Papadimitriou**, "The yield curve and business cycle forecasting in a Support Vector Machines framework", 77th International Atlantic Economic Conference, Philadelphia, October, 2013.
 14. Periklis Gogas, **Theophilos Papadimitriou**, Maria Matthaïou, "A novel Banking Supervision Method using the Minimum Dominating Set", 77th International Atlantic Economic Conference, Philadelphia, October, 2013.
 15. Vasilios Plakandaras, **Theophilos Papadimitriou**, Periklis Gogas, "Forecasting Daily and Monthly Exchange Rates with Machine Learning Techniques", 77th International Atlantic Economic Conference, Philadelphia, October, 2013.
 16. **Theophilos Papadimitriou**, K. I. Diamantaras, "Blind Separation of PAM-MIMO Systems based on the Distribution of the Observation Differences", EUSIPCO 2013, Morocco, 9-13 September, 2013.
 17. Periklis Gogas, **Theophilos Papadimitriou**, and Maria Matthaïou, "A novel Banking Supervision Method using the Minimum Dominating Set", Network Models in Economics and Finance Conference, Athens, 13 June, 2013.
 18. **Theophilos Papadimitriou**, Periklis Gogas, and Georgios-Antonios Saranditis, "A study on the GDP growth of the US states using the Minimum Dominating Set", Network Models in Economics and Finance Conference, Athens, 13 June, 2013.
-

-
19. **Theophilos Papadimitriou**, Periklis Gogas, Vasilios Plakandaras and John C. Mourmouris, "Predicting the insolvency of U.S. banks using Support Vector Machines", 76th International Economic Conference, Vienna, April, 2013.
 20. Periklis Gogas, **Theophilos Papadimitriou** and Vasilios Plakandaras, "Common Stochastic trends and the Ricardian Equivalence in the OECD", 76th International Economic Conference, Vienna, April, 2013.
 21. Vasilios Plakandaras, Periklis Gogas, and **Theophilos Papadimitriou**, "Forecasting US/EUR daily and monthly exchange rates with machine learning techniques", 76th International Economic Conference, Vienna, April, 2013.
 22. Efthymia Chrynasthidou, Periklis Gogas, and **Theophilos Papadimitriou**, "Optimum Currency Areas within the US and Canada", 2nd Conference of the Financial Engineering and Banking Society (FEBS), Athens, 2011.
 23. Vasilios Plakandaras, **Theophilos Papadimitriou**, and Periklis Gogas, "Directional Forecasting in Financial Time Series using Support Vector Machines: the USD/Euro Exchange Rate", 2nd Conference of the Financial Engineering and Banking Society (FEBS), Athens, 2011.
 24. K. I. Diamantaras, **Th. Papadimitriou**, G. Vranou "Blind Separation of Multiple Binary Sources from one Nonlinear Mixture", in Proc. IEEE Int. Conference on Acoustics, Speech, and Signal Processing (ICASSP-2011), Prague, 22-27 May 2011.
 25. M. Zampoglou, **Th. Papadimitriou**, K. I. Diamantaras, "Motion Descriptors for Semantic Video Indexing", International Conference on Signal Processing and Multimedia Applications (SIGMAP 2010), Athens, 26-28 Jul 2010.
 26. K. I. Diamantaras, **Th. Papadimitriou**, "Separating two Binary Sources from A Single Nonlinear Mixture", in Proc. IEEE Int. Conference on Acoustics, Speech, and Signal Processing (ICASSP-2010), Dallas (TX), HIIA, 14-19 Mar 2010.
 27. K. I. Diamantaras, **Th. Papadimitriou**, "Blind MISO Deconvolution using the Distribution of Output Differences", 2009 International Workshop on Machine Learning for Signal Processing (MLSP-2009), Grenoble, 2-4 Sep 2009.
 28. K. I. Diamantaras, **Th. Papadimitriou**, "Histogram based blind identification and Source Separation from Linear Instantaneous Mixtures", in Proc. 8th International Conference on Independent Component Analysis and Signal Separation (ICA-2009), Paraty, Brazil, 15-18 Mar 2009.
 29. M. Zampoglou, **Th. Papadimitriou**, K. I. Diamantaras, "Integrating Motion and Color for Content Based Video Classification", in Proc. 1st
-

-
- IAPR Workshop on Cognitive Information Processing, σελ. 194-199, Santorini, 9-10 Jun 2008.
30. M. Zampoglou, **Th. Papadimitriou**, I. Papadimitriou, “Color based Video Sequences Hierarchical Classification”, in Proc. 4th Panhellenic Data Analysis Conference, (2007)
 31. A. Toubalidou, **Th. Papadimitriou**, J.C. Mourmouris, “Unemployment in Greece and Level of Education”, in Proc. 4th Panhellenic Data Analysis Conference, (2007)
 32. M. Zampoglou, **Th. Papadimitriou**, K. I. Diamantaras, “Support Vector Machines Content-Based Video Retrieval based solely on Motion Information”, 2007 International Workshop on Machine Learning for Signal Processing (MLSP-2007), Thessaloniki, 27-29 Aug 2007.
 33. K. I. Diamantaras, **Th. Papadimitriou**, “Analytical Solution of the Blind Identification Problem for Multichannel FIR Systems based on Second Order Statistics”, IEEE Int. Conference on Acoustics, Speech, and Signal Processing (ICASSP-2007), Honolulu (HA), HIIA, 15-20 Apr 2007.
 34. K. I. Diamantaras, **Th. Papadimitriou**, “Blind Multichannel Deconvolution using Subspace-Based Single Delay Channel Deflation”, 12th Digital Signal Processing Workshop (DSP-2006), Grand Teton National Park (WY), HIIA, 24-27 Sep 2006.
 35. **Th. Papadimitriou**, K. I. Diamantaras, “Channel Shortening of Multi-Input Multi-Output Convolutional Systems with Binary Sources”, 2006 International Workshop on Machine Learning for Signal Processing (MLSP-2006), Maynooth, Ireland, 6-8 Sep 2006.
 36. K. I. Diamantaras, **Th. Papadimitriou**, E. Kotsialos, “A Channel Deflation Approach for the Blind Deconvolution of a complex FIR Channel with Real Input”, 14th European Signal Processing Conference (EUSIPCO-2006), Florence, 4-8 Sep 2006.
 37. L. Psarri, **Th. Papadimitriou**, K. I. Diamantaras, «Neural Networks based forecasting of the local wind “Vardaris”», 8th Meteorology-Climatology and Atmosphere Physics, Athens, 24-26 May, 2006.
 38. K. I. Diamantaras, **Th. Papadimitriou**, “Blind Separation of Reflections using the Image Mixtures Ratio”, IEEE Int. Conference on Image Processing (ICIP-2005), Genoa, Italy, 11-14 Sep 2005, Vol 2, pp. 1034 - 1037.
 39. K. I. Diamantaras, **Th. Papadimitriou**, “Blind Deconvolution of Multi-Input Single-Output Systems with Binary Sources”, IEEE Int. Conference on Acoustics, Speech, and Signal Processing (ICASSP-2005), Philadelphia (PA), HIIA, 19-23 Mar 2005, Vol 3, pp. 549 - 552.
 40. K. I. Diamantaras, **Th. Papadimitriou**, “Blind Deconvolution of SISO Systems with Binary Source based on Recursive Channel Shortening”, in
-

Proceedings of Independent Component Analysis and Blind Signal Separation – ICA 2004, Granada, Spain, 22-24 September.

41. G. Menexes, **Th. Papadimitriou**, “Object Classification, of a 0-1 matrix, based on their correspondence axis coordinates”, 17th Panhellenic Statistics Conference, 2004.
 42. K. I. Diamantaras, **Th. Papadimitriou**, “MIMO Blind Deconvolution using Subspace-Based Filter Deflation”, in Proceedings of IEEE Int. Conference on Acoustics, Speech, and Signal Processing (ICASSP2004), Montreal, Canada, 2004, Vol 4, pp. 433 - 436.
 43. K. I. Diamantaras, **Th. Papadimitriou**, “Temporal Filtering and Oriented PCA Neural Networks for Blind Source Separation”, in Proceedings of IEEE Int. Workshop on Neural Networks for Signal Processing (NNSP2003), Toulouse, France, 17-19 September, 2003, pp. 369 - 378.
 44. K. I. Diamantaras, **Th. Papadimitriou**, “Blind Signal Separation using Oriented PCA Neural Models”, in Proceedings of IEEE Int. Conference on Acoustics, Speech, and Signal Processing (ICASSP2003), Hong Kong, China, 6-10 April, 2003, Vol 2, pp. 733-736.
 45. K. I. Diamantaras, **Th. Papadimitriou**, “Oriented PCA and Blind Separation”, in Proceedings of the Fourth Int. Symposium on Independent Component Analysis and Blind Signal Separation (ICA2003), Nara, Japan, 1-4 April, 2003.
 46. **Th. Papadimitriou**, K. I. Diamantaras, M. G. Strintzis, M. Roumeliotis, "A Novel Rigid Object Segmentation Method based on Multiresolution 3-D Motion and Luminance Analysis", in Proceedings of IEEE Int. Conference on Image Processing (ICIP-2000), Vancouver, Canada, 10-13 September, 2000, Vol 1, pp 323-326.
 47. **Th. Papadimitriou**, K. I. Diamantaras, M. G. Strintzis, M. Roumeliotis, "A New Image Sequence Segmentation based on Luminance and 3-D Motion Information", In Proceedings of Int. Workshop on Synthetic - Natural Hybrid Coding and Three Dimensional Imaging (IWSNHC3DI99), Santorini, Greece, 15-17 September 1999, pp 53-57.
 48. **Th. Papadimitriou**, K. I. Diamantaras, M. G. Strintzis, M. Roumeliotis, "Robust Estimation of Rigid Body 3-D Motion Parameters from Point Correspondences", In Proceedings of IEEE Int. Conference on Acoustics, Speech, and Signal Processing (ICASSP99), Phoenix (AR), USA, 15-19 March 1999, Vol. 6, pp. 3349 - 3352.
 49. K. I. Diamantaras, **Th. Papadimitriou**, M. G. Strintzis, M. Roumeliotis, "Total Least Squares 3-D Motion Estimation", in Proceedings of IEEE Int. Conference on Image Processing (ICIP98), Chicago (IL), USA, 4-7 October, 1998, Vol. 1, pp. 923 - 927.
-

-
50. N. Nikolaou, **Th. Papadimitriou**, G. Stamatelos, "Etude Ampelométrique et l'application statistique à l'identification et classification de la vigne", in Proceedings of 5th Oenometrics, Thessaloniki, Greece, October 1997.
 51. A. Karakos, **Th. Papadimitriou**, "A simple way for a 3D simulation", in Proceedings of 13th Int. Conference on Digital Signal Processing, Santorini, Greece, 2-4 July, 1997, Vol II, pp. 829-832.
 52. G. Stamatelos, **Th. Papadimitriou**, N. Nikolaou, "Ampelometric Parameters evaluation using Principal Component Analysis for vine classification ", 9th Panhellenic Conference on Statistics, Xanthi, 1996, pp. 334 - 341.
 53. N. Nikolaou, **Th. Papadimitriou**, I. Papadimitriou, "Estimation de divers parametres des graines et leur contribution a l'identification et classification des vignes sauvages (Vitis vivifera L.ssp. silvestris Gmel.)", in Proceedings of Int. Oenometric Conference, Zaragosa, Spain, February, 1996, Vol II, pp. 143 - 135.

Book Chapters

1. **T. Papadimitriou**, P. Gogas, G. A. Sarantitis, "Business Cycle Convergence: A Survey of Methods and Models" in Mathematics Without Boundaries, eds. P.M. Pardalos, T. M. Rassias, pp. 447-469, Springer New York, 2014.
2. **T. Papadimitriou**, P. Gogas, G. A. Sarantitis, "European Business Cycle Synchronization: A Complex Network Perspective" in Network Models in Economics and Finance, eds. V.A. Kalyagin, P.M. Pardalos, T. M. Rassias, pp. 265-275, Springer New York, 2014.
3. P. Gogas, **T. Papadimitriou**, M.-A. Matthaiou, "A Novel Banking Supervision Method Using the Minimum Dominating Set" in Network Models in Economics and Finance, eds. V.A. Kalyagin, P.M. Pardalos, T. M. Rassias, pp. 277-286, Springer New York, 2014.
4. P. Gogas, **T. Papadimitriou**, "The Burgas – Alexandroupolis Pipeline: Macroeconomic Impact for Greece", in "*Greece's Horizons: Reflecting on the country's assets and capabilities*", eds P. Sklias and N. Tzifakis, Springer, 2013.

Dissertations

1. "*Motion Parameters Estimation on an Image Sequence and Application on Frame Segmentation*". Ph.D. Thesis, AUPh, 2000.
 2. "*Etudes de différents schémas d'estimation/segmentation du mouvement en vue de la compression de séquence d'images*". Rapport de stage, Université de Nice - Sophia Antipolis, France, 1996.
-

CITATIONS

