

Dr. Sotiris Nikolopoulos

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Department of Accounting and Finance
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Curriculum vitae

Research Interest

Machine Learning in Accounting & Finance, Dynamic Combination of Forecasts, Fintech, Behavioral Finance & Accounting, Valuation of Companies, Investment Strategies, Value Relevance, Financial Analysis.

Education

- 2010 **PhD**, “*Dynamic Combination of Neural Network Predictions for Economic Problems*”, *Informatics Dept.*, Economics University of Athens
- 1993 **Master in Computer Science**, *Dept. of Mathematics & Computer Science*, University of Dundee, Scotland
- 1990 **Master of Accountancy**, *Dept. of Accountancy*, University of Dundee, Scotland
- 1988 **First Degree in Business Administration**, *Dept. of Business Administration*, University of Macedonia, Thessaloniki, Greece

Academic and Professional Experience

- 2020 - τώρα **Assistant Professor**, *University of the Peloponnese*
Dept. of Accounting and Finance.
- 2017 - 2020 **Assistant Professor**, *Technological Educational Institution of Thessaly*
Dept. of Accounting and Finance.
- 2011 - 2017 **Lecturer**, *Technological Educational Institution of Thessaly*
Dept. of Accounting and Finance.
- 2006 - 2010 **Systems Analyst**
Development of Computerized Trading Systems.
- 1996 - 2006 **Senior Economist**, *National Bank of Greece*, National Bank of Greece
Strategic Planning & Economic Research Dept..
- 1996 - 1996 **Financial Analyst**, *Hellenic Telecommunications Organization*
Dept. of Financial Services & Development.
- 1995 - 1996 **Head of Economic Research and Analysis Dept.**, *OMEGA Brokerage*
Dept. Economic of Research & Analysis.
- 1995 - 1995 **Financial Analyst**, *Kerdoos Ermis Brokerage*
Dept. of Economic Analysis.

Publications

- 2021 Lyroudi, K. and Nikolopoulos, S.D., *Stock Market Reaction at the WHO's Announcement of a Pandemic due to COVID-19 of the French Pharmaceuticals*. European Research Studies Journal, Vol. 24.3B, pp. 482-496.
- 2019 Nteri, S., and Nikolopoulos, S.D. *Evaluation of Greek Mutual Funds before and after the Financial Crises*, 10th National Conference of the Financial Engineering and Banking Society, Athens, Greece, December 20-21.
- 2018 Nikolopoulos, S.D. *Dynamic Estimation of CAPM Parameters in the Greek Stock Market using State Space Models*, 8th International Ioannina Meeting on Applied Economics and Finance, Corfu, Greece, June 20-22.
- 2018 Nikolopoulos, S.D. *Time varying herding behavior in the stock market: a dynamic state space approach*, 3rd International Conference of Development and Economy, Kalamata, Greece, May 03-06.
- 2018 Nikolopoulos, S.D. *Dynamic Factor Analysis for the Estimation of Time Series Common Trends in European Stock Markets*, 4th International Conference on Applied Theory, Macro and Empirical Finance, Thessaloniki, April 02-03.
- 2017 Nikolopoulos, S.D. *Dynamic Estimation of CAPM Parameters using State Space Models*, 16th Annual Conference of the Hellenic Finance and Accounting Association, Athens, 15-16 December.
- 2017 Nikolopoulos, S.D. *Identification of Time Varying Herding Behavior in the Stock Market using State Space Models*, 8th National Conference of the Financial and Engineering Society, Athens, 18-19 December.
- 2017 Nikolopoulos, S.D. and Tzilira, E.V. *Herding Investment Behavior in the Greek Stock Market*. MIBES Transactions, Vol 11, Issue 1, pp. 63-72.
- 2017 Nikolopoulos, S.D. *Dynamic Combination of Automatic Forecasts for Corporate Budgeting*. Strategic Innovative Marketing. Springer, Cham. pp. 97-103.
- 2017 Nikolopoulos, S.D., Santouridis, I. and Lazarides, T. *Financial Text Mining in Tweet-erland*. Strategic Innovative Marketing, Springer, Cham. pp. 105-114.
- 2016 Nikolopoulos, S.D. and Tzouramanis, N. *Data Mining Association Rules of ICT's Adoption Factors by Greek Accountants*. MIBES Transactions, Vol 10, Issue 2, pp. 78-91.
- 2015 Damasiotis, V., Trivellas, P., Santouridis, I., Nikolopoulos, S.D. and Tsifora, E. *IT Competences for Professional Accountants. A Review*. Procedia-Social and Behavioral Sciences, Vol. 175, pp. 537-545.
- 2014 Santouridis, I., Tsifora, E., Trivellas, P. and Nikolopoulos, S.D., *Revising Greek Accounting and Finance education in an economic crisis environment*. Procedia-Social and Behavioral Sciences, Vol. 148, pp. 428 – 436.
- 2012 Nikolopoulos, S.D., *e-Accounting*. Innovation and Entrepreneurship Unit, Technological Educational Institute of Thessaly. Larissa.
- 2012 Nikolopoulos, S.D., Tsoutsas, P. and Tsifora, E., *Technological Impact on Accounting Profession*. In National Conference on Management and Economics, pp. 256–274. Technological Educational Institute of Thessaly, Larissa.

- 2011 Chroni, M., Nikolopoulos, S.D. and Nikolopoulos, S., *A Hierarchical Structure of Cloud Technologies for Scientific and Economic Efficient Use in Education*. In Int'l Conference on e-Learning and Knowledge Society (e-Learning'11), pp. 231–237. Editura ASE.
- 2004 Nikolopoulos, S.D., and Papakyriazis, P.A., *Improved Market Forecast with Optimal Dynamic Combiners*. In HERCMA 2003. Proceedings of the 6th Hellenic-European Conference on Computer Mathematics and its Applications, pp. 774–781.
- 2002 Nikolopoulos, S.D., and Papakyriazis, P.A., *On Dynamic Model Combination*. In HERCMA 2001. Proceedings of the 5th Hellenic-European Conference on Computer Mathematics and its Applications, pp. 627–638.
- 1999 Nikolopoulos, S.D. and Papakyriazis, P.A., *Meta-probabilistic Neural Network Combinational Learning for Dynamically Evolving Financial Systems*. In Computers and Computational Engineering in Control, Volume I of *Mobile & Intelligence Agents in Banking*, pp. 423-429. World Scientific and Engineering Society Press.
- 1993 Nikolopoulos, S.D., Dicker, R.M. and Nikolopoulos, S., *Capital Investment Decisions using Monte Carlo Simulation*. In 4th Pan Hellenic Conference on Informatics, volume II of Artificial & Intelligence - Knowledge Systems, pp. 451–464. Greek Computer Society, New Technologies Publication.

Publications in Collective Volumes

- 2022 Nikolopoulos, S., Lyroudi, K., *Dynamic Estimation of CAPM Parameters with State Space Models*. Scientific Collected Volume in Honor of Christos Tsoumas.

Publications in Professional Journals

- 1999 - 2001 Nikolopoulos, S.D. *The Stock Market*, National Bank of Greece, Economic & Financial Bulletin, Greece: Vol. 3(1), Vol. 3(2), Vol. 3(3), Vol. 3(4), Vol. 3(5), Vol. 4(1), Vol. 4(2), Vol. 4(3), Vol. 4(4), Vol. 4(5), Vol. 4(6), Vol. 5(1), Vol. 5(2), Vol. 5(3), Vol. 5(4).
- 1999 Nikolopoulos, S.D. *Regularity Changes in the Stock Market*, National Bank of Greece, Annual Economic Review, Greece.
- 1999 Nikolopoulos, S.D. *Mutual Funds*, National Bank of Greece, Annual Economic Review, Greece.

Research in Progress

- Forecasting IPO withdraw by Text Mining Algorithms.
- Long term stock market forecasting by a combination of CNN vision learners
- Exploring Managers View of Company Risk using Annual Company Reports: A Text Mining Approach.
- Evolution of CSR, ESG and Sustainability Topics in Scientific Journals. A Text Mining Approach

Books

S. Nikolopoulos & P. Papakyriazis, *Introduction to Computer Science for Economists*, Economic University of Athens, Publisher E. Mpenos, Athens, 2004.

Technical Report

2013 Sotirios Nikolopoulos, *Technological Impacts on the Accounting Profession: Case Studies*, Research Committee. Technological Institute of Thessaly.

Member of Scientific Committees

Program Committee Member of the “International Conference on Computer Supported Education” - CSEDU 2012-2020.

Participation in Research Programs

2012-2015 Member of the research team of the approved research project entitled “Accounting and Finance Professionals: Their Emerging Roles in the Contemporary Digital Accounting”. Project “Arximidis III” - ESPA (Business Education Program and Lifelong Learning).

Postgraduate Courses & Seminars

2021 - τώρα **Analysis of Financial Statements**, *Masters in Accounting & Finance, Dept. of Accounting & Finance, University of Peloponnese*

2016 - 2019 **Financial analysis II**, *Master's in Accounting & Finance, Dept. of Economics, University of Thessaly and Dept. of Accounting & Finance, TEI of Thessaly*

2015 - 2019 **Investment Analysis & Management**, *MBA. Dept. of Business Administration, TEI of Thessaly*

2012 - 2013 **Managing Trough Information (Accounting & Finance), Master of Science in Management**, *Technological Institute of Thessaly & Staffordshire University, Greece*

2012 **Managing Trough Information (Accounting & Finance), Master in Business Administration**, *Technological Institute of Thessaly & Staffordshire University, Greece*

2011 - 2012 **Managing Trough Information (Accounting & Finance), Master of Science in Management**, *Technological Institute of Thessaly & Staffordshire University, Greece*

2005 - 2006 **Dynamical Systems & New Forecasting Methodologies (seminars)**, *Economic University of Athens*

Academic Courses & Seminars

2020 - 2023 **Models and Data Analysis in Finance**, *University of the Peloponnese, Greece*

2020 - 2023 **Company Valuation and Analysis**, *University of the Peloponnese, Greece*

2020 - 2023 **Big Data Analytics**, *University of the Peloponnese, Greece*

2020 - 2023 **Collective Investment Organizations**, *University of the Peloponnese, Greece*

2019 **Quantitative Topics in Finance**, *University of Thessaly, Greece*

- 2019 **Investments in the Stock Market**, *University of Thessaly*, Greece
- 2019 **Fundamental Analysis & Business Valuation**, *University of Thessaly*, Greece
- 2019 **Introduction to Finance**, *University of Thessaly*, Greece
- 2019 **Quantitative Topics in Finance**, *University of Thessaly*, Greece
- 2014 - 2018 **Quantitative Topics in Finance**, *Technological Institute of Thessaly*, Greece
- 2011 - 2018 **Investments in the Stock Market**, *Technological Institute of Thessaly*, Greece
- 2014 - 2018 **Fundamental Analysis & Business Valuation**, *Technological Institute of Thessaly*, Greece
- 2014 - 2018 **Introduction to Finance**, *Technological Institute of Thessaly*, Greece
- 2011 - 2017 **Audit**, *Technological Institute of Thessaly*, Greece
- 2014 - 2017 **Investment Analysis & Portfolio Management**, *Technological Institute of Thessaly*, Greece
- 2016 **Scientific Research Methodology**, *Technological Institute of Thessaly*, Greece
- 2012 - 2016 **Money & Financial Markets**, *Technological Institute of Thessaly*, Greece
- 2011 - 2015 **Financial Management**, *Technological Institute of Thessaly*, Greece
- 2014 **Cost Accounting**, *Technological Institute of Thessaly*, Greece
- 2013 **Scientific Research Methodology**, *Technological Institute of Thessaly*, Greece
- 2011 **Ανάλυση Χρηματοοικονομικών Καταστάσεων**, *Technological Institute of Thessaly*, Greece
- 2011 **Business Economics**, *Technological Institute of Thessaly*, Greece
- 2011 **Computerized Accounting**, *Technological Institute of Thessaly*, Greece
- 2004 - 2008 **Informatics for Economists**, *Economic University of Athens*
- 1991 - 1992 **Management Information Systems**, *Πανεπιστήμιο Μακεδονία*, Thessaloniki
- 1991 - 1992 **Operational research**, *University of Macedonia*, Thessaloniki
- 2002 **New Technologies for Economic Decisions**, (*Seminar*), University of Athens
- 2001 **Applied Economic Analysis**, (*Seminar*), University of Athens

Erasmus Lectures

- 2013 - 2014 **Financial Management - Erasmus Course**, *Technological Institute of Thessaly*, Greece
- 2011 - 2012 **Financial Statement Analysis - Erasmus Course**, *Technological Institute of Thessaly*, Greece
- 2011 **Money & Money Markets - Erasmus Course**, *Technological Institute of Thessaly*, Greece

Specialized Professional Seminars

- 2002 - 2003 **Financial Analysis & Valuation of Companies**, *Financial Analyst Certification Seminar*, Athens Stock Exchange: Training Center for Securities Services & Association of Greek Banks, Athens
- 2002 - 2003 **Portfolio Analysis**, *Fund Managers Certification Seminar*, Athens Stock Exchange: Training Center for Securities Services & Ένωσης Ελληνικών Τραπεζών, Athens
- 2002 - 2002 **Fundamental Financial Analysis**, *Broker certification seminar*, Athens
- 2000 - 2002 **Portfolio Management: Theory & Practice**, *Athens Stock Exchange: Training Center for Securities Services*, Athens
- 2000 - 2002 **Active Investment Strategies**, *Athens Stock Exchange: Training Center for Securities Services*, Athens
- 1999 - 2002 **Fundamental & Quantitative Economic Analysis**, *Athens Stock Exchange: Training Center for Securities Services*, Athens
- 1998 - 2004 **Artificial Neural Networks for Investments**, *Athens Stock Exchange: Training Center for Securities Services*, Athens
- 2001 **Advanced Risk Analysis & Portfolio Management**, *Teaching Center Ekthesis*, Cyprus
- 2001 **Economic Decisions: Theory & Practice**, *Stock Market Forum*, Cyprus

Computerized Systems

Scientific Programs

- Eviews
- Gauss
- Matlab
- PSPP
- R-Project
- SAS
- Statistica
- Forecast Master Plus
- Gretl
- Octave
- Python
- S-Plus
- SPSS
- X_YLaTeX

Databases & Financial Analysis Systems

- Bloomberg
- Datastream
- Fundamental (Profile)
- Metastock
- Reuters
- Quandl
- Finance (Effect)
- Super Chart

Office Automation

- Microsoft Office
- KOffice
- Scribus
- Libreoffice
- Bluefish
- Inkscape

Database Management Systems

- Informix
- MySQL

- PostgreSQL

Neural networks

- NeuroShell2

Operating Systems

- Linux / Unix

- SQL & 4GL

- TradingSolutions

- Windows

Sotirios Nikolopoulos
Kalamata, May 2023