

## Dr Michael Kampouridis

PhD, MSc, PGCHE, BSc, FHEA

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### EMPLOYMENT

**Sep 2012 - Present**      **School of Computing, University of Kent**

Lecturer  
Member of the Data Science group  
Member of the Computational Intelligence group

**Apr 2013 - April 2017**      **Sch. of Comp. Science and Electr. Engineering, University of Essex**  
Visiting Fellow

Collaborators:

- Centre for Computational Finance and Economic Agents (CCFEA)
- Network Convergence Laboratory (NCL)

**Nov 2010 - Jul 2012**      **Sch. of Comp. Science and Electr. Engineering, University of Essex**  
Research Assistant working on British Telecom's projects

1st Appointment: Nov 2010 - May 2011. Project: Forecasting Demand for Fibre-based Networks  
2nd Appointment: Aug 2011 - Jul 2012. Project: Backhaul Network Optimisation

### EDUCATION

**2013**      **University of Kent**  
Postgraduate Certificate in Higher Education (PGCHE)

**2011**      **University of Essex**  
PhD in Computer Science  
School of Computer Science and Electronic Engineering (CSEE)

EPSRC funded.

Thesis Title: *“Computational Intelligence in Financial Forecasting and Agent-Based Modeling: Applications of Genetic Programming and Self-Organizing Maps”*.

Supervisor: Prof Edward Tsang (CSEE, Essex)  
Co-supervisor: Prof Shu-Heng Chen (Department of Economics, NCCU, Taiwan)  
Examiners: Prof Xin Yao (Birmingham), Dr Steve Phelps (CSEE, Essex)

**2006**      **University of Essex**  
MSc in Computer Studies (*with distinction*)

*Best dissertation prize awarded.*

**2005**      **University of Athens**  
BSc in Economic Sciences. *Grade: 63%.*

## TEACHING EXPERIENCE

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### Sep 2012 - Present      School of Computing, University of Kent

Subjects involved as a convenor, lecturer and/or class supervisor:

- CO323 - Databases and the Web (2012 - Now)  
*Topics: HTML(5), Javascript, CSS, PHP, MySQL.*
- CO334 - People and Computing (2012 - Now)  
*Topics: Personal Development Project, how to work successfully in a group, IPR, Laws applying to the use and development of computing.*
- CO525 - Dynamic Web (2012)  
*Topics: Javascript, CSS, MySQL, PHP.*
- CO539 - Web Development (2014 - Now)  
*Topics: Web servers, PHP Frameworks (CodeIgniter), jQuery, AJAX, Web Services, Android Development.*
- CO542 - Foundations of Information Technology and Computing (2014 - Now)  
*Topics: Intermediate Java (testing, inheritance, abstraction, interfaces, exceptions), project management, software engineering.*
- CO649 - Data Mining (2012, 2013)  
*Topics: Data pre-processing, decision trees, naive bayesian classification, post-processing.*
- CO656 - Computational Intelligence in Business, Economics and Finance (2015 - Now)  
*Topics: Heuristic algorithms, particularly evolutionary algorithms, and how we apply them to tackle real-world business problems.*

*Nominated by my students for a Kent Union Teaching Award for the Academic Year 2012-2013.*

### Jan 2008 - Mar 2012      Sch. of Comp. Science and Electr. Engineering, University of Essex Graduate Teaching and Lab Assistant.

Subjects taught:

- Computational Intelligence in Economics and Finance, Web Applications Programming, Agent-Technology

## OTHER WORK EXPERIENCE

### Jan 2008 - Mar 2009      Human Rights Centre, University of Essex

Web Maintenance Officer. Responsible for developing web applications and maintaining the Human Rights Centre website.

### Oct 2007 - Jun 2008      Student Support Office, University of Essex

Residents Support Network (RSN) Assistant. Responsible for the welfare of students who live in University accommodation

### Jun 2003 - Aug 2003      Commercial Bank of Greece

Internship

### Oct 2002 - Mar 2003      Department of Economics, University of Essex

Visiting Student under the Erasmus program

## PUBLICATIONS

- 8 edited book proceedings
- 9 peer-reviewed journal papers
- 2 peer-reviewed book chapters
- 30 peer-reviewed papers in conference proceedings

For a full list of publications, please see Appendix IV.

## SUPERVISION

### 2012 - Present      School of Computing, University of Kent

- PhD supervision
  - Mr Sam Cramer (September 2013 - October 2017 [Completed])
  - Mr Adesola Noah Adegboye (January 2016 - Present)
- PhD Panel member
  - Mr Ismail Anwar (January 2017 - Present)
- MSc Dissertation Projects (June 2013 - Present)

*Distinctions:*

- *Extracts from the above dissertations have been published in the Genetic and Evolutionary Computation Conference (GECCO - 2014), and in the IEEE Congress on Evolutionary Computation (CEC) conference (2015)*

- Final Year Group Projects (September 2012 - Present)

### 2011 - 2012      Sch. of Comp. Science and Electr. Engineering, University of Essex

Research-led MSc Dissertation Projects.

*Distinctions:*

- *Oustanding MSc Dissertation Prize (2012)*
- *MSc Project Presentation Prize (2012, 2013)*
- *Extracts from the above dissertations have been published in the IEEE Congress on Evolutionary Computation (CEC) conference (2013), and the IEEE Computational Intelligence for Financial Engineering & Economics conference (2014)*

## INTERNAL EXAMINER

PhD Examination for Dr Keith Greenhow, School of Computing, University of Kent (November 2017)

## EXTERNAL EXAMINER

Member of PhD examination committee (external examiner) for Dr Ivan Contreras, from Universidad Complutense de Madrid (July 2014)

## GRANTS, SCHOLARSHIPS and PRIZES

Total value of grants and scholarships: approx £31,000

A detailed list of these grants, scholarships and prizes can be found in Appendix II.

**School of Computing, University of Kent**

- Director of Graduate Studies - Research (January 2018 - June 2018)
- Library (Drill Hall) Representative (Sep 2017 - Now)
- School Representative at the Faculty of Sciences Board (Mar 2017 - Now)
- Associate Colleges Liaison. Overseeing MidKent College's IT programmes (Nov 2016 - Now)
- Research Seminars Organiser (Sep 2012 - Now)
- Academic Adviser. Academic and pastoral support (Sep 2012 - Now)

**Student Support Office, University of Essex**

Residents Support Network (RSN) Co-ordinator. Welfare role. Supervising RSN assistants, who are responsible for the welfare of students who live in University accommodation, Oct 2009 - Sep 2011

**PROFESSIONAL MEMBERSHIPS**

- IEEE Computational Finance and Economics Technical Committee (CFE TC) (2013, 2016)
- IEEE (2007 - 2014)
- IEEE Computational Intelligence Society (CIS) (2007 - 2014)
- IEEE Intelligent Systems Applications Technical Committee (ISA TC) (2014)
- IEEE CIS Young Professionals Subcommittee (2014)
- Fellow of the Higher Education Academy (FHEA)

**OTHER PROFESSIONAL ACTIVITIES**

## Conference Organisation

- Track Chair of EvoFin/EvoBAFIN, EvoStar (2015 - Now)
- Chair and Organising Committee of Computer Science and Electronic Engineering Conference (CEEC), University of Essex (2011, 2012)

## Research Visits

- AI-Econ Centre, Department of Economics, NCCU, Taiwan (Jun 2009 - Sep 2009)
- AI-Econ Centre, Department of Economics, NCCU, Taiwan (Sep 2008 - Dec 2008)

*Additional professional activities include: international conferences session chair, international journals reviewer, programme committee member of international conferences, tutorial instructor in conferences, and invited talks. A full list of the above activities can be found in Appendix III.*

**SKILLS AND ACTIVITIES****Computing**

**Programming Languages:** Java, MATLAB

**Databases:** MySQL

**Web technologies:** SVG, HTML 5, XHTML, CSS 2/3, JSP, JSTL, ASP, ASP.net, PHP, CodeIgniter, JavaScript, jQuery

**Other:** Eclipse, Eclipse Rich Client Platform (OSGi Framework), LaTeX, Weka

**Foreign Languages**

**Chinese (Mandarin dialect):** Intermediate (3 years studies)

**Czech:** Beginner

**English:** Excellent (Cambridge Certificate of Proficiency in English, May 2004)

**French:** Good (Certificate in French-Delf 1, December 1997)

**Greek:** Excellent (Native speaker)

## RESEARCH SUMMARY

I am interested in the use of Machine Learning (ML) techniques in business-related problems. I mainly work in the area of Evolutionary Algorithms, particularly Genetic Algorithms and Genetic Programming.

### Current projects

My current research can be divided into two areas: algorithmic trading, and weather derivatives pricing.

With regards to algorithmic trading and financial forecasting in general, now, in the aftermath of a global financial crisis, it is more important than ever to have a better understanding of the markets and be able to forecast their movement. Directional changes is a new concept, which is based on the idea that an event-based system can capture significant points in price movements that the traditional physical time methods cannot. I am currently using evolutionary algorithms to create trading rules, by taking advantage of this new concept.

Another area I am heavily involved with is weather derivatives. Weather derivatives are financial instruments used as part of a risk management strategy to reduce risk associated with adverse or unexpected weather conditions. My aim is to develop a model of pricing weather derivative contracts by the use of genetic programming methods. Until now, there is no generally accepted framework for pricing such derivatives, as it happens with other (non-weather) derivatives (i.e. Black-Scholes model). This is a major problem, as it leads to incorrect predictions of the contract prices, thus resulting to significant financial losses. On the other hand, developing a novel genetic programming algorithm to create a generic pricing framework has the potential of great impact in the sector, by solving a problem that has existed since the introduction of weather derivatives in 1997, much like the Black-Scholes model did for options pricing in 1973. This is a significant problem, which is getting more and more attention by both industry and academia.

### Past projects

I have used Genetic Programming to develop a financial forecasting tool, named EDDIE, which I used for predicting buy opportunities based on data from daily closing prices. I am deeply interested in the field of financial forecasting, and I continuously look for new search methods that can improve the predictability of forecasting tools such as EDDIE.

In addition, I have developed a financial model to study market dynamics and market behaviour by using Genetic Programming, along with Self-Organizing Maps. Financial modeling is another area that interests me and I believe that it has much to offer in understanding the financial markets and the decision-making process.

Furthermore, I have applied Genetic Algorithms and other heuristic techniques to a Telecommunications problem, where I built an intelligent system alongside an economic model, for British Telecoms (BT). This system acts as a decision support tool for the investment of Fibre Optic Networks, by advising BT on the optimal time and location for deploying a network.

Lastly, I have also been working on Automated Bargaining for Price-Speed (P-S) Optimised Negotiation. While Price-only optimisation is very popular and well-known, Price-Speed optimisation is relatively new. I am the first to bring GP into P-S optimisation and results have already demonstrated the GPs superiority against other state-of-the-art algorithms.

My interests are not, however, limited only in the above applications. I am always open in any type of interdisciplinary research that includes the use of Machine Learning. I am thus very keen on bringing ML into business, economics, and finance.



## LIST OF PROFESSIONAL ACTIVITIES

## Editorship

- Guest Editor, Special Issue in Computational Finance and Economics, Evolutionary Intelligence, Springer (2016)
- Guest Editor, Special Issue in Discrete Dynamics in Evolutionary Computation and Its Application, Discrete Dynamics in Nature and Society, Hindawi (2016)

## Grant Panel Membership

- Member, Engineering, Physical and Space Sciences (EPSS), Newton Fund Programme, British Council (August 2015 - March 2016)

## Conference Organisation

- Track Chair of EvoFin/EvoBAFIN, EvoStar (2015 - Now)
- Chair & Organising Committee for Computer Science and Electronic Engineering Conference (2011, 2012)

## Conference Session Chair

- EvoBAFIN, EvoStar 2017, Amsterdam, Netherlands
- EvoBAFIN, EvoStar 2016, Porto, Portugal
- EvoFin, EvoStar 2015, Copenhagen, Denmark
- EvoFin, EvoStar 2014, Granada, Spain
- Genetic Programming: Theoretical and Practical Aspects, IEEE Congress on Evolutionary Computation (CEC) 2013, Cancun, Mexico
- Computational Finance, 3rd Computer Science and Electronic Engineering Conference (CEEC-2011), University of Essex, UK

## Programme/Technical Committee Member

- Genetic and Evolutionary Computation Conference (GECCO) 2014, 2015, 2016, 2017, 2018
- IEEE Congress on Evolutionary Computation (CEC) 2014, 2015, 2016, 2017
- IEEE Computational Intelligence for Financial Engineering & Economics (CIFEr) 2014, 2015, 2016, 2017
- EvoFin/EvoBAFIN, EvoStar 2015, 2016, 2017
- IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC) 2015, 2016, 2017
- Frontiers and Advances in Data Science (FADS) 2017
- Duke Forest Conference 2016: Economics in the Era of Natural Computationalism and Big Data, North Carolina, USA
- Big Data: The 2nd International Workshop on Big Data, International Conference on Cyber-enabled distributed computing and knowledge discovery, Shanghai, China, 2014
- Computer science and Electronic Engineering Conference (CEEC), School of Computer Science and Electronic Engineering, University of Essex, 2011, 2012

## Research Visits

- AI-Econ Centre, Department of Economics, NCCU, Taiwan (Jun 2009 - Sep 2009)
- AI-Econ Centre, Department of Economics, NCCU, Taiwan (Sep 2008 - Dec 2008)

## Reviewer

- Memetic Computing (2017, 2014)

- Expert Systems with Applications (2017, four times)
- IEEE Transactions on Emerging Topics in Computational Intelligence (2017)
- Artificial Intelligence Review (2017, 2016)
- International Journal of Bio-Inspired Computation (IJBIC) (2017, 2015, 2013)
- ACM Computing Surveys (2016)
- Intelligent Decision Technologies: An International Journal (2016)
- Genetic Programming and Evolvable Machines (2016 (twice), 2015)
- International Journal of Pattern Recognition (2016)
- International Journal of Metaheuristics (2016 (twice), 2014)
- International Journal of Information Technology & Decision Making (2016, twice)
- Special Issue on Research Advances and Applications of Evolutionary Computation, Computación y Sistemas (2016)
- Computational Economics (2016, twice)
- Newton Fund Programme, Travel Grants, British Council (2015)
- Newton Fund, IDEA Programme, British Council (2015)
- Computational Intelligence (2015-twice)
- Information Sciences (2015-three times)
- IEEE Transactions on Evolutionary Computation (2014, 2012-twice)
- Quantitative Finance (2014)
- Discrete Dynamics in Nature and Society (2014)
- Journal of New Generation Computing (2014)
- International Journal of Systems Science: Operations & Logistics (2014)
- Journal of Zhejiang University Science C (Computers & Electronics) (2014, 2013)
- Intelligent Systems in Accounting, Finance and Management (2013)
- IEEE Transactions on Systems, Man and Cybernetics (Part C) (2012)

#### Tutorial Instructor

- IEEE Congress on Evolutionary Computation (CEC), Cancun, Mexico (2013)

#### Invited Talks

- Guest Lecture, CF963-Learning and Computational Intelligence in Economics and Finance (MSc Module), Centre for Computational Finance and Economic Agents, University of Essex (2011, 2012, 2013, 2015)

#### Internal Examiner

- PhD Examination for Dr Keith Greenhow, School of Computing, University of Kent (November 2017)

#### External Examiner

- Member of PhD examination committee for Dr Ivan Contreras, from Universidad Complutense de Madrid (July 2014)



## LIST OF PUBLICATIONS

**Edited Books:**

- E1 Squillero, G., Sim, K. et al. (Eds.): “Applications of Evolutionary Computation, Proceedings of the 20th European Conference, EvoApplications 2017, Lecture Notes in Computer Science, Part I, Vol. 10199, Springer (2017)
- E2 Squillero, G., Sim, K. et al. (Eds.): “Applications of Evolutionary Computation, Proceedings of the 20th European Conference, EvoApplications 2017, Lecture Notes in Computer Science, Part II, Vol. 10200, Springer (2017)
- E3 Brabazon, A. Kampouridis, M. (Eds): “S.I.: Computational Finance and Economics’, Evolutionary Intelligence, Springer (2016)
- E4 Squillero, G., Burelli, P. et al. (Eds.): “Applications of Evolutionary Computation, Proceedings of the 19th European Conference, EvoApplications 2016, Lecture Notes in Computer Science, Part I, Vol. 9597, Springer (2016)
- E5 Squillero, G., Burelli, P. et al. (Eds.): “Applications of Evolutionary Computation, Proceedings of the 19th European Conference, EvoApplications 2016, Lecture Notes in Computer Science, Part II, Vol. 9598, Springer (2016)
- E6 Kim, Y-H., Kattan, A. Kampouridis, M., Yoon, Y. (Eds): “Discrete Dynamics in Evolutionary Computation and Its Applications”, Discrete Dynamics in Nature and Society, vol. 2016, ISSN: 1607-887X (Online), DOI: 10.1155/3059, Hindawi (2016)
- E7 Mora, A. M., Squillero, G. et al. (Eds.): “Applications of Evolutionary Computation”, Proceedings of the 18th European Conference, EvoApplications 2015, Lecture Notes in Computer Science, Part I, Vol. 9028, Springer (2015)
- E8 Mora, A. M., Squillero, G. et al. (Eds.): “Applications of Evolutionary Computation”, Proceedings of the 18th European Conference, EvoApplications 2015, Lecture Notes in Computer Science, Part II, Vol. 9029, Springer (2015)

**Peer-Reviewed Journals:**

- J1 Cramer, S., Kampouridis, M., Freitas, A.A., Alexandridis, A.: “An Extensive Evaluation of Seven Machine Learning Methods for Rainfall Prediction in Weather Derivatives”, Expert Systems with Applications, Elsevier, Vol. 85, pp. 169-181 (2017) IF: 2.981
- J2 Kampouridis, M., Otero, F.: “Evolving Trading Strategies Using Directional Changes”, Expert Systems with Applications, Elsevier, Vol. 73, pp. 145-160 (2017) IF: 2.981
- J3 Alexandridis, A., Kampouridis, M., Cramer, S.: “A Comparison between Wavelet Networks and Genetic Programming in the Context of Temperature Derivatives”, International Journal of Forecasting, Volume 33 (1), Elsevier, pp. 21-47 (2017) IF: 1.626
- J4 Kampouridis, M., Otero, F.: “Heuristic Procedures for Improving the Predictability of a GP Financial Forecasting Algorithm”, Soft Computing, Springer, Vol. 21 (2), pp. 295-310 (2017) IF: 1.630
- J5 Vastardis, N., Kampouridis, M., Yang, K.: “A User Behaviour-driven Smart-Home Gateway for Energy Management”, Journal of Ambient Intelligence and Smart Environments, Vol. 8 (6), pp. 583 - 602 (2016) IF: 0.707
- J6 Kampouridis, M., Alsheddy, A., Tsang, E.: “Hyper-Heuristics Applications to a Financial Forecasting Problem”, Annals of Mathematics and Artificial Intelligence, Springer, Vol. 68 (4), pp. 225-246 (2013) IF: 0.944
- J7 Kampouridis, M., Tsang, E.: “Investment Opportunities Forecasting: Extending the Grammar of a GP-based Tool”, International Journal of Computational Intelligence Systems, Vol. 5 (3), pp. 530-541 (2012) IF: 0.391

- J8 Kampouridis, M., Chen, S.-H., Tsang, E.: “Microstructure Dynamics and Agent-Based Financial Markets: Can Dinosaurs Return?”, *Advances in Complex Systems*, Vol. 15 (5), pp. 1-27 (2012) ABS Ranking: 3\*
- J9 Kampouridis, M., Chen, S.-H., Tsang, E.: “Market Fraction Hypothesis: A Proposed Test”, *International Review of Financial Analysis*, Vol. 23, pp. 41-54 (2012) ABS Ranking: 3\*

#### Peer-Reviewed Book Chapters:

- BC1 Kampouridis, M., Chen, S.-H., Tsang, E.: “Market Microstructure: A Self-Organizing Map Approach to Investigate Behavior Dynamics under an Evolutionary Environment”, in Brabazon, A., O’Neil, M. (Eds.), *Natural Computing in Computational Finance*, Volume 4, *Studies in Computational Intelligence Series*, Springer (2011).
- BC2 Kampouridis, M., Chen, S.-H., Tsang, E.: “The Market Fraction Hypothesis under different Genetic Programming algorithms”, in Yap, A. (Ed.), *Information Systems for Global Financial Markets: Emerging Developments and Effects*, IGI Global, Chapter 3, pp. 37-54 (2011).

#### Peer-Reviewed Papers in Conference Proceedings:

- C1 Adegboye, A., Kampouridis, M., Johnson, C. G.: “Regression Genetic Programming for eEstimating Trend End in Foreign Exchange Market”, *IEEE Symposium on Computational Intelligence for Financial Engineering & Economics (CIFEr)*, *IEEE Symposium Series on Computational Intelligence*, Honolulu, Hawaii, pp. TBA (2017)
- C2 Kampouridis, M., Adegboye, A., Johnson, C. G.: “Evolving Directional Changes Trading Strategies with a New Event-based Indicator”, in *SEAL 2017, Lecture Notes in Computer Science (LNCS)*, pp. TBA (2017)
- C3 Cramer, S., Kampouridis, M., Freitas, A. A., Alexandridis, A.: “Pricing Rainfall Based Futures Using Genetic Programming”, in G. Squillero, K. Sim, et al. (Eds.): *EvoApplications 2017, Lecture Notes in Computer Science (LNCS) 10199*, pp. 17 – 33 (2017)
- C4 Cramer, S., Kampouridis, M., Freitas, A. A.: “A Genetic Decomposition Algorithm for Predicting Rainfall within Financial Weather Derivatives”, *Genetic and Evolutionary Computation Conference (GECCO)*, Denver, Colorado, USA (2016)
- C5 Cramer, S., Kampouridis, M., Freitas, A. A.: “Feature Engineering for Improving Financial Derivatives-based Rainfall Prediction”, *IEEE Congress on Evolutionary Computation (CEC)*, Vancouver, Canada (2016)
- C6 Cramer, S., Kampouridis, M., Freitas, A. A., Alexandridis, A.: “Predicting Rainfall in the Context of Rainfall Derivatives Using Genetic Programming”, *IEEE Symposium on Computational Intelligence for Financial Engineering & Economics (CIFEr)*, *IEEE Symposium Series on Computational Intelligence*, Cape Town, South Africa, pp. 711 – 718 (2015)
- C7 Cramer, S., Kampouridis, M.: “Guided Local Search for the Intelligent Deployment of Fibre Optic Networks”, *IEEE Congress on Evolutionary Computation*, Shendai, Japan, pp. 799 – 806 (2015)
- C8 Gypteau, J., Otero, F., Kampouridis, M.: “Generating Directional Change Based Trading Strategies with Genetic Programming”, in A.M. Mora and G. Squillero (Eds.): *EvoApplications 2015, Lecture Notes in Computer Science (LNCS) 9028*, Chapter 22, pp. 1-12 (2015)
- C9 Brookhouse, J., Otero, F., Kampouridis, M.: “Working with OpenCL to Speed Up a Genetic Programming Financial Forecasting Algorithm: Initial Results”, *EvoSoft, GECCO*, Vancouver, Canada (2014)
- C10 Kattan, A., Kampouridis, M., Ong, Y.-S., Mehamdi, K.: “Transformation of Input Space using Statistical Moments: EA-Based Approach”, *IEEE World Congress on Evolutionary Computation (WCCI)*, Beijing, China (2014)
- C11 Kattan, A., Kampouridis, M., Agapitos, A.: “Generalisation Enhancement via Input Space Transformation: A GP Approach”, *Genetic Programming, Proceedings of the 17th European Conference, EuroGP, EvoStar*, Granada, Spain (2014)

**Nominated for Best Paper Award**

- C12 Otero, F., Kampouridis, M.: “A Comparative Study on the Use of Classification Algorithms in Financial Forecasting”, Proceedings of the 17th European Conference, EvoApplications, Evostar, Granada, Spain (2014)
- C13 Aluko, B., Smonou, D., Kampouridis, M., Tsang, E., ”Combining Different Meta-heuristics to Improve the Predictability of a Financial Forecasting Algorithm”, IEEE Computational Intelligence for Financial Engineering & Finance (CIFEr), London, UK (2014)
- C14 Shao, M., Smonou, D., Kampouridis, M., Tsang, E.: “Guided Fast Local Search for Speeding Up a Financial Forecasting Algorithm”, IEEE Computational Intelligence for Financial Engineering & Economics (CIFEr), London, UK (2014)
- C15 Kampouridis, M., Otero, F.: “Using Attribute Construction to Improve the Predictability of a GP Financial Forecasting Algorithm”, in 2013 Conference on Technologies and Applications of Artificial Intelligence (TAAI), IEEE Conference Publishing Services (CPS), pp. 55-60 (2013)
- C16 Alexandridis, A., Kampouridis, M.: “Temperature Forecasting in the Concept of Weather Derivatives: A Comparison between Wavelet Networks and Genetic Programming”, in L. Iliadis, H. Papadopoulos, and C. Jayne (Eds.): EANN 2013, Part I, CCIS 383, pp. 12–21, Springer, Heidelberg (2013)
- C17 Smonou, D., Kampouridis, M., Tsang, E.: “Metaheuristics Application on a Financial Forecasting Problem”, IEEE Congress on Evolutionary Computation (CEC), Cancun, Mexico, pp. 1021-1028 (2013)
- C18 Kampouridis, M.: “An Initial Investigation of Choice Function Hyper-Heuristics for the Problem of Financial Forecasting”, IEEE Congress on Evolutionary Computation (CEC), Cancun, Mexico, pp. 2406-2413 (2013)
- C19 Kampouridis, M., Sim, K.M.: “A GP approach for Price-Speed Optimizing Negotiation”, IEEE Congress on Evolutionary Computation (CEC), Cancun, Mexico, pp. 1170-1177 (2013)
- C20 Rais Shaghghi, A., Glover, T., Kampouridis, M., Tsang, E.: “Guided Local Search for Optimal GPON/FTTP Network Design”, In: Chaki, N., Meghanathan, N., Nagamalai, D. (Eds.): Proceedings of the Fourth International Conference on Networks & Communications, Lecture Notes in Electrical Engineering, Vol. 131, pp. 255-263, Springer (2013)
- C21 Kampouridis, M., Glover, T., Rais Shaghghi, A., Tsang, E.: “Using a Genetic Algorithm as a Decision Support Tool for the Deployment of Fiber Optic Networks”, IEEE World Congress on Computational Intelligence (WCCI), Brisbane, Australia (2012)
- C22 Alsheddy, A., Kampouridis, M., “Off-line Parameter Tuning for Guided Local Search Using Genetic Programming”, IEEE World Congress on Computational Intelligence (WCCI), Brisbane, Australia (2012)
- C23 Kampouridis, M., Chen, S.-H., Tsang, E.: “Market Microstructure: Can Dinosaurs Return? A Self-Organizing Map Approach under an Evolutionary Framework”, in C. Di Chio et al. (Eds.): EvoApplications 2011, Part II, LNCS 6625, pp. 91–100. Springer, Heidelberg (2011)
- C24 Kampouridis, M., Chen, S.-H., Tsang, E., “Investigating the Effect of Different GP Algorithms on the Non-Stationary Behavior of Financial Markets”, IEEE Symposium on Computational Intelligence for Financial Engineering & Economics, 11-15 April 2011, Paris, France, IEEE Xplore (2011)
- C25 Kampouridis, M., Tsang, E.: “Using Hyperheuristics under a GP framework for Financial Forecasting”, C.A. Coello Coello (Ed.): LION 5, LNCS 6683, pp. 16–30. Springer, Heidelberg (2011)
- C26 Chen, S.-H., Kampouridis, M., Tsang, E.: “Microstructure Dynamics and Agent-Based Financial Markets”, In Multi-Agent-Based Simulation XI, 11th International Workshop, Toronto, Canada, Revised Papers, LNAI, Springer-Verlag, pp. 121-135 (2010)
- C27 Kampouridis, M., Tsang, E.: “EDDIE for Investment Opportunities Forecasting: Extending the Search Space of the GP”, In Proceedings of the IEEE World Congress on Computational Intelligence (WCCI), Barcelona, Spain, pp. 2019-2026 (2010)

- C28 Kampouridis, M., Chen, S.-H., Tsang, E.: “Testing the Dinosaur Hypothesis under Empirical Datasets”, In R. Schaefer et al. (Eds.): PPSN XI, Part II, LNCS 6239, pp. 199–208. Springer, Heidelberg (2010)
- C29 Chen, S.-H., Kampouridis, M., Tsang, E.: “Microstructure Dynamics and Agent-Based Financial Markets”, In Proceedings of the 11th International Workshop on Multi-Agent-Based Simulation, Toronto, pp. 117-128 (2010)
- C30 Kampouridis, M., Chen, S.-H., Tsang, E.: “Testing the Dinosaur Hypothesis Under Different GP Algorithms”, Proceedings of the UKCI Workshop, Essex, IEEE Xplore (2010)

**Theses:**

- D1 Kampouridis, M.: “Computational Intelligence in Financial Forecasting and Agent-Based Modeling: Applications of Genetic Programming and Self-Organizing Maps”, PhD Thesis, University of Essex (2011)
- D2 Kampouridis, M.: “An Intelligent Tutoring System for Java”, MSc Thesis, University of Essex (2006)

**Media:**

- M1 My research on EDDIE was featured in an article at the Automated Trader magazine, Issue 28 Q2 2013, p. 21: “Sex, death and the quest for algorithmic glory”, by Automated Trader Editor Adam Cox (2013)

**Tutorials:**

- T1 An application of Genetic Programming to Financial Forecasting, IEEE Congress on Evolutionary Computation (CEC), Cancun, Mexico (2013)