

# Antonis Economou

## Curriculum Vitae – Version March 6, 2020

### A. General Information.

Birth date : March 13, 1972  
Birth place : Athens, Greece  
Address (office) : National & Kapodistrian University of Athens  
Department of Mathematics  
Section of Statistics and OR  
Panepistemioupolis  
Athens 15784  
Greece  
Telephone : 0030-210-7276351  
e-mail : [aeconom@math.uoa.gr](mailto:aeconom@math.uoa.gr)  
Website : <http://scholar.uoa.gr/aeconom/home>  
Fax : 0030-210-7276381  
Family status : Married, 2 children

### B. Studies.

- B.Sc. in Mathematics (1989-1993).  
National & Kapodistrian University of Athens, Department of Mathematics, July 1993.  
Grade: Excellent, 9.33/10.
- M.A. in Mathematics (1993-1994).  
University of California, Los Angeles (UCLA), Department of Mathematics, Pure program, June 1994.  
Grade (GPA): 3.975/4. Qualifying exams: Real Analysis, Algebra.
- M.Sc. in Statistics and Operations Research (1994-1997).  
University of Athens, Department of Mathematics, June 1997.  
Grade: Excellent, 9.56/10. Master thesis: *Stochastic Orders and Applications*.
- Ph.D. in Mathematics (1994-1998).  
University of Athens, Department of Mathematics, July 1998.  
Grade: Excellent. PhD dissertation: *Study of Product-Form Queueing Systems*.

### C. Research Interests.

Operations Research – Quantitative Methods in Economics and Business – Operations Management – Applied Probability – Social and Economic Networks – Mathematical Biology.

In particular:

- Markov Chains, Renewal Processes, Semi-Markov Processes and Markov Renewal Processes
- Generating Function Methods in Stochastic Models
- Matrix-Analytic Methods in Stochastic Models
- Stochastic Orders and Applications
- Markov Decision Processes and Applications
- Decision/Game Theoretic Analysis and Pricing Problems in Stochastic Models
- Queueing Theory
- Stochastic Networks
- Stochastic Population Models
- Stochastic Epidemic Models

#### **D. Academic positions.**

- 1999 - 2000 : Visiting Lecturer at the Department of Applied Mathematics, University of Crete
- 2000 - 2001 : Visiting Assistant Professor at the Department of Applied Mathematics, University of Crete
- 2001 - 2005 : Lecturer at the Department of Mathematics, National & Kapodistrian University of Athens.
- 2005 - 2009 : Assistant Professor (without tenure) at the Department of Mathematics, National & Kapodistrian University of Athens.
- 2009 - 2011 : Assistant Professor (tenured) at the Department of Mathematics, National & Kapodistrian University of Athens.
- 2011 - 2016 : Associate Professor at the Department of Mathematics, National & Kapodistrian University of Athens.
- 2016 - : Professor at the Department of Mathematics, National & Kapodistrian University of Athens.

#### **E. Research (papers, research reports, theses).**

##### **1. Papers published in journals with a reviewing process.**

1. Bountali, O. and Economou, A. (2019) Strategic customers behavior in a two-stage batch processing system. *Queueing Systems* **93** (1-2), 3-29.  
DOI: 10.1007/s11134-019-09615-0
2. Bountali, O. and Economou, A. (2019) Equilibrium threshold joining strategies in partially observable batch service queueing systems. *Annals of Operations Research* **277** (2), 231-253.

DOI: 10.1007/s10479-017-2630-0

3. Baron, O., Economou, A. and Manou, A. (2018) The state-dependent  $M/G/1$  queue with orbit. *Queueing Systems* **90** (1-2), 89-123.

DOI: 10.1007/s11134-018-9582-1

4. Burnetas, A., Economou, A. and Vasiliadis, G. (2017) Strategic customer behavior in a queueing system with delayed observations. *Queueing Systems* **86**, 389-418.

DOI: 10.1007/s11134-017-9522-5

5. Economou, A. and Bountali, O. (2017) Equilibrium joining strategies in batch service queueing systems. *European Journal of Operational Research* **260**, 1142-1151.

DOI: 10.1016/j.ejor.2017.01.024

6. Economou, A. and Manou, A. (2016) Strategic behavior in an observable fluid queue with an alternating service process. *European Journal of Operational Research* **254**, 148-160.

DOI: 10.1016/j.ejor.2016.03.046

7. Economou, A. and Lopez-Herrero, M.J. (2016) The deterministic SIS epidemic model in a Markovian random environment. *Journal of Mathematical Biology* **73**, 91-121.

DOI: 10.1007/s00285-015-0943-7

8. Economou, A. and Manou, A. (2015) A probabilistic approach for the analysis of the  $Mn/G/1$  queue. *Annals of Operations Research*. DOI: 10.1007/s10479-015-1943-0

9. Economou, A., Gomez-Corral, A. and Lopez-Garcia, M. (2015) A stochastic SIS epidemic model with heterogeneous contacts. *Physica A* **421**, 78-97.

DOI: 10.1016/j.physa.2014.10.054

10. Artalejo, J.R., Economou, A. and Lopez-Herrero, M.J. (2015) The stochastic SEIR model before extinction: Computational approaches. *Applied Mathematics and Computation* **265**, 1026-1043.

11. Manou, A., Economou, A. and Karaesmen, F. (2014) Strategic customers in a transportation station: When is it optimal to wait? *Operations Research* **62** (4), 910-925.

DOI:10.1287/opre2014.1280

12. Artalejo, J.R., Economou, A. and Lopez-Herrero, M.J. (2013) Stochastic epidemic models in random environment: Quasi-stationarity, extinction and final size. *Journal of Mathematical Biology* **67** (4), 799-831.

DOI: 10.1007/s00285-012-0570-5

13. Boudali, O. and Economou, A. (2013) The effect of catastrophes on the strategic customer behavior in queueing systems. *Naval Research Logistics* **60** (7), 571-587.

DOI: 10.1002/nav.21553

14. Economou, A. and Manou, A. (2013) Equilibrium balking strategies for a clearing queueing system in alternating environment. *Annals of Operations Research* **208** (1), 489-514.

DOI: 10.1007/s10479-011-1025-x

15. Dimou, S. and Economou, A. (2013) The single server queue with catastrophes and geometric reneging. *Methodology and Computing in Applied Probability* **15** (3), 595-621.

DOI: 10.1007/s11009-011-9271-6

16. Boudali, O. and Economou, A. (2012) Optimal and equilibrium balking strategies in the single server Markovian queue with catastrophes. *European Journal of Operational Research* **218** (3), 708-715.

DOI: 10.1016/j.ejor.2011.11.043

17. Artalejo, J.R., Economou, A. and Lopez-Herrero, M.J. (2012) Stochastic epidemic models revisited: Analysis of some continuous performance measures. *Journal of Biological Dynamics* **6** (2), 189-211.

DOI: 10.1080/17513758.2011.552737

18. Economou, A., Gomez-Corral, A. and Kanta, S. (2011) Optimal balking strategies in single-server queues with general service and vacation times. *Performance Evaluation* **68** (10), 967-982.

DOI: 10.1016/j.peva.2011.07.001

19. Dimou, S., Economou, A. and Fakinos, D. (2011) The single server vacation queueing model with geometric abandonments. *Journal of Statistical Planning and Inference* **141** (8), 2863-2877.

DOI: 10.1016/j.jspi.2011.03.010

20. Economou, A. and Kanta, S. (2011) Equilibrium customer strategies and social-profit maximization in the single-server constant retrial queue. *Naval Research Logistics* **58** (2), 107-122.

DOI: 10.1002/nav.20444

21. Artalejo, J.R., Economou, A. and Lopez-Herrero, M.J. (2010) On the number of recovered individuals in the SIS and SIR stochastic epidemic models. *Mathematical Biosciences* **228** (1), 45-55.

DOI: 10.1016/j.mbs.2010.08.006

22. Economou, A., Kapodistria, S. and Resing, J. (2010) The single server queue with synchronized services. *Stochastic Models* **26** (4), 617-648.

DOI: 10.1080/15326349.2010.519670

23. Economou, A. and Kapodistria, S. (2010) Synchronized abandonments in a single server unreliable queue. *European Journal of Operational Research* **203** (1), 143-155.

DOI:10.1016/j.ejor.2009.07.014

24. Artalejo, J.R., Economou, A. and Lopez-Herrero, M.J. (2010) The maximum number of infected individuals in SIS epidemic models: Computational techniques and quasi-stationary distributions. *Journal of Computational and Applied Mathematics* **233** (10), 2563-2574.  
DOI: 10.1016/j.cam.2009.11.003
25. Economou, A. and Lopez-Herrero, M.J. (2009) Performance analysis of a cellular mobile network with retrials and guard channels using waiting and first passage time measures. *European Transactions on Telecommunications* **20** (4), 389-401.  
DOI: 10.1002/ett.1294
26. Adan, I., Economou, A. and Kapodistria, S. (2009) Synchronized reneging in queueing systems with vacations. *Queueing Systems* **62** (1-2), 1-33.  
DOI: 10.1007/s11134-009-9112-2
27. Economou, A. and Kapodistria, S. (2009) q-series in Markov chains with binomial transitions: Studying a queue with synchronization. *Probability in the Engineering and Informational Sciences* **23** (1), 75-99. DOI: 10.1017/S0269964809000084
28. Economou, A. and Kanta, S. (2008) Equilibrium balking strategies in the observable single server queue with breakdowns and repairs. *Operations Research Letters* **36** (6), 696-699.  
DOI: 10.1016/j.orl.2008.06.006
29. Artalejo, J.R., Economou, A. and Gómez-Corral, A. (2008) Algorithmic analysis of the *Geo/Geo/c* retrial queue. *European Journal of Operational Research* **189** (3), 1042-1056.  
DOI: 10.1016/j.ejor.2007.01.060
30. Economou, A. and Kanta, S. (2008) Optimal balking strategies and pricing for the single server Markovian queue with compartmented waiting space. *Queueing Systems* **59** (3-4), 237-269.  
DOI: 10.1007/s11134-008-9083-8
31. Economou, A. and Fakinos, D. (2008) Alternative approaches for the transient analysis of Markov chains with catastrophes. *Journal of Statistical Theory and Practice* **2** (2), 183-197.  
DOI: 10.1080/15598608.2008.10411870
32. Artalejo, J.R., Economou, A. and Lopez-Herrero, M.J. (2007) Algorithmic analysis of the maximum queue length in a busy period for the *M/M/c* retrial queue. *INFORMS Journal of Computing* **19** (1), 121-126.  
DOI: 10.1287/ijoc.1050.0156
33. Artalejo, J.R., Economou, A. and López-Herrero, M.J. (2007) Evaluating growth measures in an immigration process subject to binomial and geometric catastrophes. *Mathematical Biosciences and Engineering* **4** (4), 573-594.

34. Burnetas, A. and Economou, A. (2007) Equilibrium customer strategies in a single server Markovian queue with setup times. *Queueing Systems* **56** (3-4), 213-228.  
DOI: 10.1007/s11134-007-9036-7
35. Artalejo, J. R., Economou, A. and Gómez-Corral, A. (2007) Applications of maximum queue length to call center management. *Computers and Operations Research* **34** (4), 983-996.  
DOI: 10.1016/j.cor.2005.05.020
36. Economou, A. and Gómez-Corral, A. (2007) The batch Markovian arrival process subject to renewal generated geometric catastrophes. *Stochastic Models* **23** (2), 211-233.  
DOI: 10.1080/15326340701300761
37. Artalejo, J.R., Economou, A. and López-Herrero, M.J. (2007) Algorithmic approximations for the busy period of the  $M/M/c$  retrial queue. *European Journal of Operational Research* **176** (3), 1687-1702.  
DOI: 10.1016/j.ejor.2005.10.034
38. Artalejo, J. R., Economou, A. and Lopez-Herrero, M.J. (2005) Analysis of a multiserver queue with setup times. *Queueing Systems* **51** (1-2), 53-76.  
DOI: 10.1007/s11134-005-1740-6
39. Artalejo, J. R. and Economou, A. (2005) Markovian controllable queueing systems with hysteretic policies. Busy period and waiting time analysis. *Methodology and Computing in Applied Probability* **7** (3), 353-378.  
DOI: 10.1007/s11009-005-4522-z
40. Economou, A. (2005) Generalized product-form stationary distributions for Markov chains in random environments with queueing applications. *Advances in Applied Probability* **37** (1), 185-211.  
DOI: 10.1239/aap/1113402405
41. Artalejo, J. R. and Economou, A. (2005) On the non-existence of product-form solutions for queueing networks with retrials. *Electronic Modeling – Journal of Simulation Engineering* **27** (1), 13-19.
42. Economou, A. (2004) The compound Poisson immigration process subject to binomial catastrophes. *Journal of Applied Probability* **41** (2), 508-523.  
DOI: 10.1239/jap/1082999082
43. Economou, A. (2004) Stationary distributions of discrete-time Markov chains in random environment: Exact computations and bounds. *Stochastic Models* **20** (1), 103-127.
44. Artalejo, J. R. and Economou, A. (2004) Optimal control and performance analysis of an  $M^X/M/1$  queue with batches of negative customers. *RAIRO - Operations Research* **38** (2), 121-151.  
DOI: 10.1051/ro:2004016

45. Economou, A. (2003) On the stochastic domination for batch-arrival batch-service and assemble-transfer queueing networks. *Journal of Applied Probability* **40** (4), 1103-1120.  
DOI: 10.1239/jap/1067436103
46. Economou, A. and Fakinos, D. (2003) A continuous-time Markov chain under the influence of a regulating point process and applications in stochastic models with catastrophes. *European Journal of Operational Research* **149** (3), 625-640.  
DOI: 10.1016/S0377-2217(02)00465-4
47. Economou, A. (2003) On the control of a compound immigration process through total catastrophes. *European Journal of Operational Research* **147** (3), 522-529.  
DOI: 10.1016/S0377-2217(02)00355-7
48. Economou, A. and Fakinos, D. (2003) On the stationary distribution of the  $GI^X/M^Y/I$  queueing system. *Stochastic Analysis and Applications* **21** (3), 559-565.  
DOI: 10.1081/SAP-120020426
49. Economou, A. (2003) Necessary and sufficient conditions for the stochastic comparison of Jackson networks. *Probability in the Engineering and Informational Sciences* **17** (1), 143-151.  
DOI: 10.1017/S0269964803171094
50. Economou, A. (2003) A characterization of product-form stationary distributions for queueing systems in random environment. *International Journal of Simulation* **4** (5-6), 4-11.
51. Economou, A. (2002) An alternative model for queueing systems with single arrivals, batch services and customer coalescence. *Queueing Systems* **40** (4), 407-432.  
DOI: 10.1023/A:1015089518876
52. Fakinos, D. and Economou, A. (2001) A new approach for the study of the  $M^X/G/I$  queue using renewal arguments. *Stochastic Analysis and Applications* **19** (1), 151-156.  
DOI: 10.1081/SAP-100000754
53. Economou, A. (2000) A stochastic lower bound for assemble-transfer batch service queueing networks. *Journal of Applied Probability* **37** (3), 881-889.
54. Economou, A. and Fakinos, D. (1999) The infinite server queue with arrivals generated by a non-homogeneous compound Poisson process and heterogeneous customers. *Communication in Statistics - Stochastic Models* **15** (5), 993-1002.
55. Economou, A. (1999) Geometric-form bounds for the  $GI^X/M/I$  queueing system. *Probability in the Engineering and Informational Sciences* **13** (4), 509-520.

56. Economou, A. and Fakinos, D. (1999) Product form stationary distributions for the  $M/G/k$  group-arrival group-departure loss system under a general acceptance policy. *European Journal of Operational Research* **112** (1), 196-206.
57. Economou, A. and Fakinos, D. (1998) Product form stationary distributions for queueing networks with blocking and rerouting. *Queueing Systems* **30** (3-4), 251-260.
58. Fakinos, D. and Economou, A. (1998) Overall station balance and decomposability for non-Markovian queueing networks. *Advances in Applied Probability* **30** (3), 870-887.

## 2. Papers in collective volumes with a refereeing process.

59. Economou, A. (2020) The impact of information structure on strategic behaviour in queueing systems. In Anisimov, V. and Limnios, N. eds. *Queueing Theory 2 Advanced Trends*. Wiley/ISTE.

## 3. Papers submitted or under revision in journals.

60. -

## 3. Papers published in conference proceedings with a reviewing process.

61. Economou, A. and Grigoriou, M. (2015) Strategic balking behavior in a queueing system with a mixed observation structure. *Proceedings of the 10<sup>th</sup> Conference on Stochastic Models of Manufacturing and Service Operations (SMMSO 2015), Volos, Greece, June 1-6, 2015*.
62. Phung-Duc, T., Resing, J., Kapodistria, S. and Economou, A. (2012) The  $M^X/M/\infty$  queue with synchronized abandonments. *Abstracts of the 2012 Spring National Conference of Operations Research Society of Japan, 27-28 March 2012, Kanagawa Prefecture, Japan*, pp 80-81.
63. Economou, A. (2009) The maximum number of infectives in SIS epidemic models: Computational techniques and quasi-stationary distributions. *Proceedings of the 6<sup>th</sup> St. Petersburg Workshop on Simulation, Vol.II*, S.M.Ermakov, V.B. Melas and A.N. Pepelyshev eds, VVM com. Ltd., St. Petersburg, pp 804-810.
64. Artalejo J.R., Economou A. and López-Herrero M.J. (2005). Algorithmic analysis for the number of customers served in a busy period of the  $M/M/c$  retrial queue. *Proceedings of the 3<sup>rd</sup> International Conference on Mathematical and Computational Models*, Arumuganathan R. and Nadarajan R. eds., Allied Publishers, pp 3-15.
65. Economou, A. (2005) Applications of stochastic orders in queueing theory: Comparisons and approximations of queueing networks. *Proceedings XIII Congresso Anual da SPE, 28 Sept. – 1 Oct. 2005*. Ericeira, Portugal.
66. Economou, A. (2003) A characterization of product-form stationary distributions for queueing systems in random environment. *Proceedings 17<sup>th</sup> European Simulation Multiconference SCS Europe BVBA (10<sup>th</sup>*



*International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2003)*), pp. 193-198. Nottingham, United Kingdom.

67. Economou, A. and Fakinos, D. (2002) A model for the influence of a point process on a continuous time Markov chain and applications. *Proceedings 10<sup>th</sup> Pan-Hellenic Statistics Conference (ESI 2002)*, Ioannina.
68. Economou, A. and Fakinos, D. (1997) Product form stationary distributions for queueing networks with blocking and rerouting. *Proceedings 10<sup>th</sup> Pan-Hellenic Statistics Conference (ESI 1997)*, Athens.

#### **4. Research reports.**

69. Economou, A. and Fakinos, D. (1997) Queueing networks with multilevel signals.
70. Economou, A. and Fakinos, D. (1996) A group-arrival service system with blocking and retrials.
71. Economou, A. and Fakinos, D. (1996) Dual station balance in queueing networks.

#### **5. Theses and dissertations.**

72. Economou, A. (1998) *Study of product-form queueing systems*. Doctoral dissertation for the PhD in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens.
73. Economou, A. (1997) *Stochastic Orders and Applications*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens.

#### **Classification of papers according journals (58):**

*European Journal of Operational Research* (9), *Queueing Systems* (9), *Journal of Applied Probability* (3), *Probability in the Engineering and Informational Sciences* (3), *Stochastic Models* (3), *Advances in Applied Probability* (2), *Naval Research Logistics* (2), *Annals of Operations Research* (3), *Methodology and Computing in Applied Probability* (2), *Stochastic Analysis and Applications* (2), *Journal of Mathematical Biology* (2), *Operations Research* (1), *OR Letters* (1), *Performance Evaluation* (1), *Journal of Statistical Planning and Inference* (1), *Computers and Operations Research* (1), *INFORMS Journal on Computing* (1), *Physica A* (1), *Mathematical Biosciences* (1), *Applied Mathematics and Computation* (1), *Journal of Biological Dynamics* (1), *Mathematical Biosciences and Engineering* (1), *Journal of Computational and Applied Mathematics* (1), *RAIRO – Operations Research* (1), *European Transactions on Telecommunications* (1), *Communications in Statistics – Stochastic Models* (1), *Journal of Statistical Theory and Practice* (1), *International Journal of Simulation* (1), *Electronic Modeling* (1).

### **Classification of papers according field of study (58):**

*Performance Evaluation of Queueing Systems (20), Strategic Behavior in Queueing Systems (14), Performance Evaluation of Queueing Networks (8), Stochastic Population Processes (5), Stochastic Epidemic Processes (7), General Applied Probability (2), Dynamic Control of Queueing Systems (2).*

## **F. Teaching**

### **1. Courses**

1. 1995 - 1997 : University of Athens, Department of Mathematics – Undergraduate courses –Teaching assistant
  - Introduction to Operations Research (2h/w: 1995Winter, 1996Winter, 1997Winter).
2. 1999 - 2001: University of Crete, Department of Applied Mathematics – Undergraduate courses
  - Linear Algebra I (6h/w: 1999Winter)
  - Linear and Non-Linear Programming (6h/w: 2000Spring)
  - Statistics I (6h/w: 2000Winter)
  - Stochastic Processes (6h/w: 2001Spring)
3. 2001 - : National & Kapodistrian University of Athens, Department of Mathematics – Undergraduate courses
  - Introduction to Operations Research (4h/w–Winter 2001, 2002)
  - Combinatorics I (3h/w: 2001Winter, 2002Winter, 4h/w: 2003Winter, 2004Winter, 2005Winter, 2006Winter, 2007Winter, 2008Winter, 2009Winter, 2010Winter, 2011Winter, 2012Winter)
  - Stochastic Processes (4h/w: 2019Winter)
  - Stochastic Methods in Operations Research I (4h/w: 2012Spring, 2013Spring, 2016Spring, 2017Spring, 2018Spring, 2019Spring)
  - Operations Research: Stochastic Models (4h/w: 2020Spring)
  - Theory of Probability I (5h/w: 2010Spring, 6h/w: 2013Spring, 2017Winter)
  - Theory of Probability II (4h/w: 2002Spring, 2003Spring, 2004Spring)
  - Queueing Theory (3h/w: 2003Spring, 2004Spring, 2004Winter, 2005Winter, 2006Winter, 2008Spring, 2008Winter, 2009Winter, 2017Spring, 2018Winter)
  - Probability and Statistics for the Department of Informatics and Telecommunications (4h/w: 2014Winter)
  - Computational Methods in Decision Theory (4h/w: 2016Spring)
4. 2001- : National & Kapodistrian University of Athens, Department of Mathematics, Program in Statistics and Operations Research – Graduate courses
  - Theory of Reliability (4h/w: 2002Spring)

- Stochastic Models in Operations Research (4h/w: 2003Winter, 2004Winter, 2005Winter, 2007Winter, 2008Winter, 2010Winter, 2014Winter, 2016Winter, 2017Winter, 2018Winter)
  - Algorithmic and Computational Techniques in Stochastic Models (4h/w: 2005Spring, 2007Spring)
  - Stochastic Dynamic Programming (4h/w: 2006Spring, 2015Winter)
  - Stochastic Processes (4h/w: 2006Winter, 2009Spring, 2012Spring)
  - Nonlinear Programming (4h/w: 2019Winter)
5. 2003- : National & Kapodistrian University of Athens and Athens University of Economics and Business, Program in the Mathematics of Market and Production – Graduate courses
- Mathematical Models for Production Planning I (3h/w 2003, 2004)
  - Mathematical Models for Production Planning III (3h/w 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018)
  - Risk Theory – Actuarial Mathematics (3h/w 2009)
  - Mathematical Models in Marketing (3h/w 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 in cooperation with Prof. Mageirou and Prof. Burnetas)
  - Operations Research – Mathematical Programming (3h/w 2018, 2019)
6. 1997 – 1999, 2007-2008, 2010-2011: Hellenic Mathematical Society: Preparations of students for the international mathematical competitions.
- Combinatorics.

## 2. Books

1. Fakinos, D. and Economou, A. (2003) *Introduction to Operations Research*. Symmetria Publishers, Athens. (In Greek, 350p.).

## 3. Theses supervision

### Advisor for Master theses:

1. Georgiadis, S. (2001) *Applications of the Theory of Linear Difference Equations in Queueing Theory*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
2. Pavitsos, A. (2002) *Analysis and Control of Stochastic Population Models with Catastrophes*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
3. Vasilaki, A. (2003) *QBD Processes and Applications to Queueing Theory*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).

4. Haros, I. (2003) *Introduction to Integer Programming I: Modeling Techniques and Applications*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
5. Kagioulis, D. (2003) *Introduction to Integer Programming II: Solution Techniques and Applications*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
6. Vardikou, L. (2004) *Markov Renewal Processes and Applications in Queueing Theory*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
7. Fotopoulos, K. (2005) *Matrix-Analytic Methods in Markov Chains with Applications in Queueing Theory*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
8. Kanta, S. (2006) *Algorithmic Techniques in Markov Chains: Probability Generating Function Methods and Applications*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
9. Kapodistria, S. (2006) *Algorithmic Techniques in Markov Chains: Matrix-Analytic Methods and Applications*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
10. Kriezis, S. (2007) *Pricing Problems in Observable Queues*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
11. Boudali, O. (2009) *Markovian Queueing Systems with Linear Transition Rates and Extensions to Systems with General Times*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
12. Manou, A. (2009) *Queueing Systems in Discrete Time*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
13. Markos, E. (2012) *Equilibrium Strategies and Social Optimization in Queueing Systems with Alternative Forms of Service*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
14. Grigoriou, M. (2013) *The Influence of Information on the Strategic Behavior of Customers in Queueing Systems*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
15. Tsouparopoulos, N. (2015) *Mean Value Analysis in Queueing Systems*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).

16. Stergiou, I. (2015) *Strategic customer behavior in series networks of queueing systems*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
17. Gkoumas, N. (2016) *Strategic behavior in queueing systems subject to breakdowns*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In Greek).
18. Baci, A. (2018) *The influence of information time on the strategic customer behavior*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In English).
19. Galanis, D. (2018) *Strategic behavior in queueing systems in alternating environment*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In English).
20. Kasimatis, V. (2019) *Strategic customer behavior in queueing systems with general service times*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In English).
21. Palamida, M. (2020) *Ticket queues: Modeling, analysis and customer behavior*. Master Thesis for the MSc in Statistics and OR, Department of Mathematics, National & Kapodistrian University of Athens (In English).

**Advisor for the Doctoral Dissertations:**

1. Kanta, S. (2009) *Equilibrium Balking Problems, Pricing and Performance Evaluation in Queueing Theory*. Doctoral Dissertation for the PhD in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens.
2. Kapodistria, S. (2009) *Stationary Performance Evaluation Measures in Multidimensional Markov Chains and Applications*. Doctoral Dissertation for the PhD in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens.
3. Dimou, S. (2012) *The Insensitivity Property in Queueing and a Study of Models with Geometric Abandonments in Queues with Server Vacations*. Doctoral Dissertation for the PhD in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens.
4. Boudali, O. (2014) *Strategic Customers in Queueing Systems with Batch Departures*. Doctoral Dissertation for the PhD in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens.
5. Manou, A. (2014) *Queueing Systems with Varying Parameters – Computational Techniques and Control Problems*. Doctoral Dissertation

for the PhD in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens.

6. Logothetis, D. (2017) Under preparation.

**Member of the Evaluation Committee/ External Examiner-Evaluator for the Doctoral Dissertations:**

1. Ferreira, F. (2007) *Embedding, Uniformization and Stochastic Ordering in the Analysis of Level-Crossing Times and  $GI^x/M(n)/c$  Systems*. Doctoral Dissertation for the PhD in Mathematics, Department of Mathematics, Technical University of Lisbon, Instituto Superior Tecnico, Portugal (In English). Member of the Evaluation Committee.
2. Escribano-Martos, M.D. (2007) *Queueing Networks with Blocking: Stationary Analysis and Sojourn Times*. Doctoral Dissertation for the PhD in Mathematical Sciences, Department of Statistics and OR, Faculty of Mathematics, University Complutense of Madrid, Spain (In Spanish). Member of the Evaluation Committee.
3. Amador-Pacheco, J. (2009) *Queueing Systems with Retrials: Analysis of the Blocking and Successful Events*. Doctoral Dissertation for the PhD in Mathematical Sciences, Department of Statistics and OR, Faculty of Mathematics, University Complutense of Madrid, Spain (In Spanish). Member of the Evaluation Committee.
4. Karamatsoukis, K. (2010) *Applications of the Dynamic Programming Method on Problems of Maintenance and Distribution*. Doctoral Dissertation for the PhD in Operations Research, Department of Economic and Business Administration Engineering, University of the Aegean, Greece (In Greek). Member of the Evaluation Committee.
5. Freedman, G.G. (2012) *Strategic Behavior in a Queue and a Model of Network Evolution*. Doctoral Dissertation for the PhD degree in Mathematical Sciences, School of Mathematical Sciences, Tel-Aviv University, Israel (In English). External Examiner.
6. Seenivasan, M. (2012) *Contribution to the Study of some Retrial Queueing Models*. Doctoral Dissertation for the PhD degree in Mathematics, Department of Mathematics, Annamalai University, India (In English). External Examiner.
7. Lopez-Garcia, M. (2013) *Stochastic Models for Two Interacting Populations: Competition and Host-Parasite Interactions*. Doctoral Dissertation for the PhD in Mathematical Sciences, Department of Statistics and OR, Faculty of Mathematics, University Complutense of Madrid, Spain (In English). Member of the Evaluation Committee.
8. Palpandi, B. (2014) *System Performance Measures for Fuzzy Queueing Models*. Doctoral Dissertation for the PhD, Faculty of Science and Humanities, Anna University, Chennai, India (In English). External Examiner.

9. Roet-Green, R. (2014) *Information in Queueing Systems with Strategic Customers*. Doctoral Dissertation for the PhD in Mathematical Sciences, School of Mathematical Sciences, Tel-Aviv University, Israel (In English). External Examiner.
10. Perel, E. (2014) *Queues with Customers Acting as Servers and Polling Systems with a Threshold-Based Switching Policy*. Doctoral Dissertation for the PhD in Mathematical Sciences, School of Mathematical Sciences, Tel-Aviv University, Israel (In English). External Examiner.
11. Kanavetas, O. (2014) *Optimization of Stochastic Systems and Applications*. Doctoral Dissertation for the PhD degree in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens, Greece (In Greek). Member of the Evaluation Committee.
12. Oz, B. (2016) *Strategic Behavior in Queues*. Doctoral Dissertation for the PhD degree, the Hebrew University, Israel (In English). External Examiner.
13. Panda, G. (2016) *Equilibrium Analysis of Markovian/Renewal Input Queues with or without Impatient Customers*. Doctoral Dissertation for the PhD degree, Indian Institute of Technology, Bhubaneswar, India (In English). External Examiner.
14. Sherzer, E. (2016) *Customer's Abandonments Strategy in Queueing Systems*. Doctoral Dissertation for the PhD degree, Ben-Gurion University of the Negev, Beer-Sheva, Israel (In English). External Examiner.
15. Srinivasan, A. (2016) *A Study of Perfectly Normal Interval Type-2 Fuzzy Linear Programming Models*. Doctoral Dissertation for the PhD degree, Faculty of Science and Humanities, Anna University, Chennai, India (In English). External Examiner.
16. Arun Kumar, S. (2016) *A New Prospectus on Fuzzy Credibility Measurement*. Doctoral Dissertation for the PhD degree, Faculty of Science and Humanities, Anna University, Chennai, India (In English). External Examiner.
17. Ramadevi, P. (2017) *Encryption Algorithms in Wireless Network*. Doctoral Dissertation for the PhD degree, Faculty of Information and Communication Engineering, Anna University, Chennai, India (In English). External Examiner.
18. Malligadevi, V. (2017) *Studies on Some Fixed Point Results Related to Various Fuzzy Metric Spaces*. Doctoral Dissertation for the PhD degree, Faculty of Information and Communication Engineering, Anna University, Chennai, India (In English). External Examiner.
19. Shahanaz Begum, I. (2017) *Detection and Prevention of SQL Injection, XSS and DDoS Attacks in Web Application and Mitigation of Web Service Attacks*. Doctoral Dissertation for the PhD degree, Faculty of Information and Communication Engineering, Anna University, Chennai, India (In English). External Examiner.

20. Shen Yichi (2017) *Performance Evaluation for Production Systems through Queueing Models*. Doctoral Dissertation for the PhD degree, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore (In English). External Examiner.
21. Sivasankaran Janaki (2017) *Studies in Stochastic Models for Human Resource Management Problems*. Doctoral Dissertation for the PhD degree, Chennai, India (In English). External Examiner.
22. Rakesh Kumar T (2018) *Some characterization of L-fuzzy l-HX group*. Doctoral Dissertation for the PhD degree, Bharathidasan University, Tiruchirappalli, India (In English). External Examiner.
23. Shenbagavalli R (2018) *Soft fuzzy sets and neutrosophic fuzzy sets for MAGDM problems with variety of weight deterministic methods*. Periyar University, Krishnagiri, Tamilnadu, India (In English). External Examiner.
24. Sevinantham E (2018) *Based neighbor recovering technique for wireless networks using directional antennas*. Doctoral Dissertation for the PhD degree, Faculty of Information and Communication Engineering, Anna University, Chennai, India (In English). External Examiner.
25. Yuvaraj N (2018) *A study and development of approaches for handling asymmetry links in heterogeneous wireless mesh networks to improve QoS*. Doctoral Dissertation for the PhD degree, Faculty of Information and Communication Engineering, Anna University, Chennai, India (In English). External Examiner.
26. Ezhilarasi S (2019) *Optimization of wavelengths and wavelength converters in all optical WDM networks using integer linear programming formulation*. Doctoral Dissertation for the PhD degree, Anna University, Chennai, India (In English). External Examiner.
27. Raajananthini K (2019) *Studies on robust stabilization and disturbance rejection for dynamical control systems*. Doctoral Dissertation for the PhD degree, Anna University, Chennai, India (In English). External Examiner.
28. Snitkovsky Ran (2020) *Notes on rational queueing*. Doctoral Dissertation for the PhD degree, Raymond & Beverly Faculty of Exact Sciences, Department of Statistics and Operations Research, Tel-Aviv University, Israel (In English). External Examiner.

## **G. Scholarships and distinctions.**

1. Awards in International and National Student Competitions in Mathematics:
  - Honorable mention in the 29<sup>th</sup> International Mathematical Olympiad (Canberra, Australia 1988).



- Bronze medal in the 6<sup>th</sup> Balkan Mathematical Olympiad (Split, Yugoslavia 1989).
  - Honorable mention in the 30<sup>th</sup> International Mathematical Olympiad (Braunschweig, Germany 1989).
  - Honorable mention in the 3<sup>rd</sup> Greek Mathematical Olympiad (Athens, Greece 1986).
  - Bronze medal in the 4<sup>th</sup> Greek Mathematical Olympiad (Athens, Greece 1987).
  - Silver medal in the 5<sup>th</sup> Greek Mathematical Olympiad (Athens, Greece 1988).
2. 2<sup>nd</sup> among the students in the Department of Mathematics, University of Athens in the Greek national examinations for entering in the Higher Education Institutions.
  3. Scholarship from the National Scholarship Foundation of Greece (IKY) for my undergraduate studies during 1989-1993.
  4. Research assistantship from the Department of Mathematics, University of California, Los Angeles during 1993-1994.
  5. Scholarship from the National Scholarship Foundation of Greece (IKY) for my PhD studies during 1995-1998.
  6. Scholarship from the National Scholarship Foundation of Greece (IKY) for my postdoctoral research in “Stochastic Models in Operations Research with focus in Queueing Network Theory” during 1999-2000.
  7. Leader of the Greek Student Team of the 2<sup>nd</sup> Junior Balkan Mathematical Olympiad (Athens, Greece 1998).

#### **H. Talks and participations in conferences.**

1. **10<sup>th</sup> Pan-Hellenic (ESI) Statistics Conference**, Piraeus 28-31/5/1997. Economou, A. and Fakinos, D. (1997) Product-form stationary distributions for queueing networks with blocking and rerouting.
2. **11<sup>th</sup> Pan-Hellenic (ESI) Statistics Conference**, Chania 5-8/6/1998. Economou, A. and Fakinos, D. (1998) Product-form stationary distributions for single-server queueing networks and multilevel signals.
3. **10<sup>th</sup> INFORMS Applied Probability Conference**, Ulm, Germany 26-28/7/1999. Economou A. (1999) Product-form networks with multilevel signals.
4. **1<sup>st</sup> Conference in Actuarial Science and Finance at Samos**, Samos 26-27/5/2000.
5. **Conference and Workshop on Stochastic Networks, University of Wisconsin - Madison**, 19-30/6/2000. Economou A. (2000) An alternative model for queueing systems with single arrivals, batch services and customer coalescence.

6. **Numerical Modeling in Finance, University Paris-Dauphine**, 4-5/12/2000.
7. **14<sup>th</sup> Pan-Hellenic (ESI) Statistics Conference**, Skiathos 19-22/4/2001. Economou, A. and Fakinos, D. (2001) Bounds and asymptotics for the stationary distributions of the  $GI^X/M/1$  and  $GI^X/M^Y/1$  queues.
8. **11<sup>th</sup> INFORMS Applied Probability Conference**, New York, USA 25-27/7/2001. Economou A. (1999) Product-form bounds and approximations for the stationary distribution of a queueing network with batch services and customer coalescence.
9. **15<sup>th</sup> Pan-Hellenic (ESI) Statistics Conference**, Ioannina 8-11/5/2002. Economou, A. and Fakinos, D. (2002) A stochastic model for the influence of a point process on a continuous time Markov chain and applications.
10. **5<sup>th</sup> Lattice Path Combinatorics and Discrete Distributions Conference**, Athens, Greece 5-7/6/2002. Economou A. (2002) On the transient and equilibrium distributions of queueing and population growth models with catastrophes.
11. **1<sup>st</sup> Madrid Conference on Queueing Theory**, Madrid, Spain 2-5/7/2002. Economou A. and Fakinos D. (2002) Algorithmic computations for the transient and the stationary distributions of queueing systems with catastrophes.
12. **17<sup>th</sup> European Simulation Multiconference SCS Europe BVBA (10<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2003))**, Nottingham, United Kingdom 9-11/6/2003. Economou, A.(2003) A characterization of product-form stationary distributions for queueing systems in random environment.
13. **2<sup>nd</sup> International Workshop in Applied Probability**, Athens, Greece 22-25/5/2004. Economou, A. (2004) On the stationary distributions of continuous-time Markov chains in random environment: Product-form approximations and stochastic comparisons.
14. **5<sup>th</sup> International Conference in Matrix Analytic Methods in Stochastic Models**, Pisa, Italy 21-24/6/2005.
15. **13<sup>th</sup> Annual Congress of the Sociedade Portuguesa de Estatística (SPE)**, Ericeira, Portugal 28-1/10/2005. Economou, A. (2005) Applications of stochastic orders in queueing theory: Comparisons and approximations of queueing networks.
16. **2<sup>nd</sup> Madrid Conference on Queueing Theory (MCQT)**, Madrid, Spain 3-7/7/2006. Burnetas, A. and Economou, A. (2006) Pricing and equilibrium behavior for a Markovian queue with setup times.
17. **6<sup>th</sup> International Workshop on Retrial Queues (WRQ)**, Miraflores de la Sierra, Spain 8-10/7/2006. Economou, A. (2006) Algorithmic analysis for the busy period of the  $M/M/c$  queue.

18. **12<sup>th</sup> International Conference on Applied Stochastic Models and Data Analysis (ASMDA)**, Chania, Greece 29/5-1/6/2007. Economou (2007) Pricing and equilibrium behavior for a Markovian queue with server vacations.
19. **14<sup>th</sup> INFORMS Applied Probability Conference**, Eindhoven, Holland 9-11/7/2007. Economou, A. (2007) Equilibrium customer strategies under various levels of information for the single server queue with unreliable server.
20. **2<sup>nd</sup> Meeting of the EURO Stochastic Working Group on Stochastic Modeling**, Istanbul, Turkey 23-25/6/2008. Economou, A. (2008) Queueing systems with binomial transitions: Modeling and analysis of synchronized events.
21. **7<sup>th</sup> International Workshop on Retrial Queues (WRQ)**, Athens, Greece 17-19/7/2008.
22. **3<sup>rd</sup> International Workshop on Tools for Solving Structured Markov Chains (SMCTools)**, Athens, Greece 20/10/2008. Economou, A. (2008) Continuous-time Markov chains with binomial transitions: Modeling, analysis and applications to queueing systems with synchronized events.
23. **3<sup>rd</sup> Meeting of the EURO Working Group on Stochastic Modelling (StochMod10)**, Nafplion, Greece 7-9/6/2010.
24. **3<sup>rd</sup> Madrid Conference on Queueing Theory (MCQT'10)**, Toledo, Spain 28/6-1/7/2010. Economou, A. (2010) The single server queue with synchronized repeated services.
25. **16<sup>th</sup> INFORMS Applied Probability Conference**, Stockholm, Sweden 6-8/7/2011. Economou, A. (2011) Stochastic epidemic models revisited: Computation of main epidemic descriptors by associated Markov chains.
26. **Markov and Semi-Markov Processes and Related Fields 2011**, Porto Carras, Sithonia-Chalkidiki, Greece 20-23/9/2011. Economou, A. (2011) Stochastic epidemic models revisited: Computation of main epidemic descriptors by associated Markov chains.
27. **4<sup>th</sup> Meeting of the EURO Working Group on Stochastic Modelling (StochMod12)**, Paris, France 30/5-1/6/2012. Economou, A. (2012) Strategic customers in a transportation station: When is it optimal to wait?
28. **Mathematical Modeling and Computational Topics in Biosciences BIOCOMP 2012**, Vietri sul Mare, Italy 4-8/6/2012. Economou, A. (2012) Stochastic epidemic models in random environment: Computation of the main epidemic descriptors.
29. **26<sup>th</sup> European Conference on Operational Research - XXVI EURO-INFORMS**, Rome, Italy 1-4/7/2013. Economou, A. (2013) Equilibrium customer behavior in a queueing system with batch services.

30. **Epidemics on Networks Advanced School (EpiNet)**, Girona, Spain 30/9-3/10/2013. Economou, A. (2013) A stochastic SIS epidemic model for small networks with heterogeneous contacts.
31. **7<sup>th</sup> International Workshop in Applied Probability (IWAP2014)**, Antalya, Turkey 16-19/6/2014. Economou, A. (2014) Game Theory meets Queueing: Strategic behavior in service systems.
32. **1<sup>st</sup> European Conference in Queueing Theory (ECQT 2014)**, Ghent, Belgium, 20-22/8/2014. Economou, A. (2014) Strategic passengers in an observable transportation station: When is it optimal to join?
33. **Models in Population Dynamics and Ecology 2014 (MPDE 2014)**, Torino, Italy, 25-29/8/2014. Economou, A. (2014) A stochastic SIS epidemic model for small populations with heterogeneous contacts.
34. **10<sup>th</sup> Conference on Stochastic Models of Manufacturing and Service Operations (SMMSO 2015)**, Volos, Greece, 1-6/6/2015. Economou, A. and Grigoriou, M. (2015) Strategic behavior in a queueing system with a mixed observation structure.
35. **2<sup>nd</sup> European Conference on Queueing Theory (ECQT 2016)**, Toulouse, France, 18-20/7/2016. Economou, A. (2016) The use of appropriate information structures for the control of queues with strategic customers.
36. **11<sup>th</sup> Workshop on Retrial Queues (WRQ11)**, Amsterdam, The Netherlands, 31/8-2/9/2016. Economou, A. (2016) The M/G/1 constant retrial queue with state-dependent arrivals and services.
37. **3<sup>rd</sup> European Conference on Queueing Theory (ECQT 2018)**, Jerusalem, Israel, 1-4/7/2018. Economou, A. (2018) Strategic customers in queueing systems with batch services.

## **I. Participation in funded research projects.**

1. Research program “Kapodistrias”, ELKE University of Athens, 2002-2003.  
 Research proposal: Computation of performance measures and stochastic comparison of queueing systems and networks.  
 Role: Scientific coordinator (PI).  
 Scientific coordinator (PI): Antonis Economou.  
 Reference number: Grant 70/4/6415, University of Athens.  
 Financing: €1700.
2. Research program “Pythagoras”, EPEAEK II European social fund and Greek national resources, 2004-2006.  
 Research proposal: Performance evaluation and control of certain queueing systems.  
 Role: Researcher.  
 Scientific coordinator (PI): Apostolos Burnetas.  
 Reference number: Grant 70/3/7388, University of Athens, European Social Fund and National Resources.

Financing: €50000.

3. Research program “Kapodistrias”, ELKE University of Athens, 2004-2005.  
Research proposal: Busy period distributions in queueing systems.  
Role: Scientific coordinator.  
Scientific coordinator (PI): Antonis Economou.  
Reference number: Grant 70/4/6415, University of Athens.  
Financing: €1500.
4. Research program “MEC” Spanish National Board Program, 2005-2008.  
Research Proposal: Retrial systems with blocking: Computational techniques with applications in engineering.  
Role: Researcher  
Scientific coordinator (PI): Jesus R. Artalejo.  
Reference number: Grant MTM2005-01248, Ministerio de Ciencia e Innovación de España.
5. Research program “Kapodistrias”, ELKE University of Athens 2006-2007.  
Research Proposal: Study of queueing systems with retrials.  
Role: Scientific coordinator.  
Scientific coordinator (PI): Antonis Economou.  
Reference number: Grant 70/4/6415, University of Athens.  
Financing: €1200
6. Research program Spanish National Board Program, 2009-2011.  
Research Proposal: Stochastic Models in Biology and Queueing Theory.  
Role: Researcher  
Scientific coordinator (PI): Jesus R. Artalejo.  
Reference number: Grant MTM2008-01121, Ministerio de Ciencia e Innovacion de España.
7. Research program “Kapodistrias”, ELKE University of Athens 2009-2010.  
Research Proposal: Performance evaluation and customer equilibrium strategies in queueing systems.  
Role: Scientific coordinator.  
Scientific coordinator (PI): Antonis Economou.  
Reference number: Grant 70/4/6415, University of Athens.  
Financing: €2100.
8. Research program “Joint Research and Technology Programs Greece-Turkey”, Ministry for Development, Greece 2010-2012.  
Research Proposal: Service systems with strategic customers: Equilibrium analysis and the value of information.  
Role: Researcher  
Scientific coordinators (PI): Apostolos Burnetas – Zeynep Aksin.  
Reference number:  
Financing: €15000.

9. Research program Spanish National Board Program, 2012-2014.  
 Research Proposal: Stochastic Epidemic and Population Modelling.  
 Role: Researcher.  
 Scientific coordinator (PI): Jesus R. Artalejo.  
 Reference number: Grant MTM2011-23864 Ministerio de Ciencia e Innovacion de España.
10. Research program “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) – Research Funding Program: Thalys – Athens University of Economics and Business.  
 Research Proposal: New Methods in the Analysis of Market Competition: Oligopoly, Networks and Regulation.  
 Role: Researcher  
 Scientific coordinator (PI): Nickolaos Vettas.  
 Reference number: 830103/75-12.  
 Financing: €549900.
11. Research program “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) – Research Funding Program: Aristia II – University of Athens.  
 Research Proposal: Optimization of stochastic systems under partial information and applications.  
 Role: Researcher.  
 Scientific coordinator (PI): Apostolos Burnetas.  
 Reference number: Grant 4357.  
 Financing: €50000
12. Research program “Second Scholarship program for PhD candidates” ELIDEK Foundation, Greece. 2019-2021.  
 Research proposal: Strategic customer behavior in queueing systems.  
 Role: Scientific coordinator (PI).  
 Reference number: 16184 (ELKE-EKPA)  
 Financing: 18000

**J. Refereeing, editorial, conference organization assignments.**

1. Referee for the journals:  
 4OR  
 Advances in Applied Probability  
 Advances in Operations Research  
 Annals of Operations Research  
 Applied Mathematical Modelling  
 Applied Mathematics and Computation  
 Communications in Statistics – Theory and Methods  
 Computers and Industrial Engineering  
 Computers and Operations Research  
 Discrete Event Dynamic Systems  
 Dynamic Games and Applications  
 European Journal of Operational Research

Flexible Services and Manufacturing  
 IEEE Communication Letters  
 IIE Transactions  
 IISE Transactions  
 IMA Journal of Management Mathematics  
 International Journal of Engineering  
 Journal of Advanced Research in Applied Mathematics  
 Journal of Applied Mathematics  
 Journal of Applied Probability  
 Journal of Biological Dynamics  
 Journal of Computational and Applied Mathematics  
 Journal of Optimization Theory and Applications  
 Journal of Statistical Planning and Inference  
 Management Science  
 Manufacturing & Service Operations Management  
 Mathematical Biosciences  
 Mathematical and Computer Modelling  
 Mathematical Methods in the Applied Sciences  
 Mathematical Problems in Engineering  
 Methodology and Computing in Applied Probability  
 Naval Research Logistics  
 Nonlinear Analysis  
 Operational Research, An International Journal  
 Operations Research  
 Operations Research Letters  
 Operations Research Perspectives  
 OPSEARCH  
 OR Spectrum  
 Performance Evaluation  
 Probability in the Engineering and Informational Sciences  
 Production and Operations Management  
 Quality Technology and Quantitative Management  
 Queueing Systems  
 RAIRO – Operations Research  
 Simulation Modelling Practice and Theory  
 Surveys in Operations Research and Management  
 TOP  
 Transportation Science  
 REVSTAT

2. Associate editor for the journal:

- Asian-Pacific Journal of Operational Research (2004-today)
- RAIRO-OR (2014-2017)
- Queueing Models and Service Management (2018-today)
- Queueing Systems – QUES (2019-today)

3. Guest editor for the journal:

- Quality Technology and Quantitative Management  
 Special issue on Queueing Systems with Vacations (with J.R. Artalejo)

- Computers and Operations Research (2010)  
Special issue on Algorithmic and Computational Methods in Retrieal Queues. See Economou, A. (2010) Editorial: Algorithmic and computational methods in retrieval queues. *Computers and Operations Research* **37**, 1157.
  - Queueing Systems (2020)  
Special issue on Strategic Queueing (with V. Kulkarni)
4. Organization of international conferences:
- 7<sup>th</sup> International Workshop on Retrieal Queues (7<sup>th</sup> WRQ), Athens 17-19/7/2008 (Chairman of the Scientific and Organizing Committee).
  - 3<sup>rd</sup> Meeting of the EURO Working Group on Stochastic Modeling (StochMod10), Nafplio 7-9/6/2010 (Vice-Chairman of the Organizing Committee).
  - Series of Workshops on Retrieal Queues (Member of the Steering Committee).
  - Series of European Conferences on Queueing Theory (Member of the Steering Committee).
5. Member of the Scientific Committee of the conferences:
- 12<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2005), Riga, Latvia, 1-4/6/2005.
  - 6<sup>th</sup> International Workshop on Retrieal Queues (6<sup>th</sup> WRQ), Miraflores de la Sierra, Spain 8-10/7/2006.
  - 13<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2006), Bonn, Germany, 28-31/5/2006.
  - 14<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2007), Prague, Czech Republic, 4-6/6/2007.
  - 15<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2008), Nicosia, Cyprus, 3-6/6/2008.
  - 16<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2009), Madrid, Spain, 9-12/6/2009.
  - 3<sup>rd</sup> Madrid Conference on Queueing Theory (3<sup>rd</sup> MCQT), Toledo, Spain, 28/6-1/7/2010.
  - 8<sup>th</sup> International Workshop on Retrieal Queues (8<sup>th</sup> WRQ), Beijing, China, 27-29/7/2010.
  - 17<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2010), Cardiff, United Kingdom, 14-16/6/2010.
  - 3<sup>rd</sup> Meeting of the EURO Group on Stochastic Modelling (StochMod10), Nafplion, Greece, 7-9/6/2010.



- 18<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2011), Venice, Italy, 20-22/6/2011.
- 19<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2012), Grenoble, France, 4-6/6/2012.
- Mathematical Modeling and Applied Soft Computing, Coimbatore, India 11-13/7/2012.
- 20<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2013), Ghent, Belgium, 8-10/7/2013.
- 21<sup>st</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2014), Budapest, Hungary, 30/6-2/7/2014.
- 10<sup>th</sup> International Workshop on Retrial Queues (10<sup>th</sup> WRQ), Tokyo, Japan, 24-26/7/2014.
- 1<sup>st</sup> European Conference in Queueing Theory (1<sup>st</sup> ECQT), Ghent, Belgium, 20-22/8/2014.
- 18<sup>th</sup> INFORMS Applied Probability Society Conference, Istanbul, Turkey, 5-8/7/2015.
- 3<sup>rd</sup> International Conference on Computing Sciences, Punjab, India, 8-9/4/2016.
- 23<sup>rd</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2016), Cardiff, Wales, UK, 24-26/8/2016.
- 2<sup>nd</sup> European Conference on Queueing Theory (ECQT 2016), Toulouse, France, 18-20/7/2016 (member of the steering committee).
- 11<sup>th</sup> Workshop on Retrial Queues (WRQ11), Amsterdam, The Netherlands, 31/8-2/9/2016.
- 24<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2017), Newcastle-upon-Tyne, UK, 10-12/7/2017
- 12<sup>th</sup> International Conference on Queueing Theory and Network Applications (QTNA 2017), Yanshan University, Qinhuangdao, China, 21-23/8/2017
- 13<sup>th</sup> International Conference on Queueing Theory and Network Applications (QTNA2018), Tsukuba, Japan, 25-27/6/2018
- 3<sup>rd</sup> European Conference on Queueing Theory (ECQT 2018), Jerusalem, Israel, 2-4/7/2018
- 12<sup>th</sup> International Workshop on Retrial Queues (WRQ 2018), Tomsk, Russia, 10-15/9/2018.
- 25<sup>th</sup> International Conference on Analytical and Stochastic Modelling Techniques and Applications (ASMTA 2019), People's Friendship University of Russia (RUDN), Russia, 23-25/10/2019.
- 14<sup>th</sup> International Symposium on Operations Research and its Applications and the 15<sup>th</sup> International Conference on Queueing Theory and Network Applications (ISORA-QTNA2020), Xian, China, 19-23/8/2020.

## **K. Citations.**

According SCOPUS:

Total citations: 1067 (excluding self citations: 942, excluding self citations of all authors: 881).

h-index: 19 (excluding self citations: 18, excluding self citations of all authors: 17).

According Google Scholar:

Total citations: 1487 (from 2015-: 829)

h-index: 24 (from 2015-: 16)

## **L. Invited Talks.**

### **1. Invited talks in Departments**

1. **University of Padova, Department of Mathematics** (March 2000)  
Economou (2000) On queueing systems with batch departures and customer coalescence: performance evaluation and control.
2. **University of Rome I - La Sapienza, Department of Mathematics** (March 2000)  
Economou (2000) On queueing systems with batch departures and customer coalescence: performance evaluation and control.
3. **University of Aegean, Department of Mathematics** (May 2000)  
Economou (2000) The property of quasi-reversibility in queueing systems: Basic concepts and recent results.
4. **University Complutense Madrid, Faculty of Mathematics** (April 2004)  
Economou (2004) Product-form stationary distributions for continuous time Markov chains in random environment and queueing applications.
5. **University Complutense Madrid, School of Statistics** (April 2004)  
Economou (2004) Product-form stationary distributions for continuous time Markov chains in random environment and queueing applications.
6. **Technical University of Lisbon, Instituto Superior Tecnico, Department of Mathematics** (October 2005)  
Economou (2005) Product-form stationary distributions for continuous time Markov chains in random environment and queueing applications
7. **Technical University of Lisbon, Instituto Superior Tecnico, Department of Mathematics** (June 2007)  
Economou (2007) Pricing and equilibrium behavior for a Markovian queue with setup times.
8. **Technical University of Eindhoven, EURANDOM** (March 2011)  
Economou (2011) The single server queue with synchronized repeated services: A semi-Markovian queue with binomial transitions.
9. **University Carlos III of Madrid, Department of Statistics** (April 2011)  
Economou (2011) Equilibrium customer strategies and social-profit maximization in retrial queues.

## 2. Invited talks in Conferences and Workshops.

1. **1<sup>st</sup> Summer School in Financial and Actuarial Mathematics**, Samos. Economou (2003) An introduction to integer programming with economic and management science applications
2. **13<sup>th</sup> Annual Congress of the Sociedade Portuguesa de Estatística (SPE)**, Ericeira, Portugal 28-1/10/2005. Economou, A. (2005) Applications of stochastic orders in queueing theory: Comparisons and approximations of queueing networks
3. **3<sup>rd</sup> International Workshop on Tools for Solving Structured Markov Chains (SMCTools 2008)**, Athens 20/10/2008. Economou (2008) Continuous-time Markov chains with binomial transitions: Modeling, analysis and applications in queueing systems with synchronized events.
4. **3<sup>rd</sup> Madrid Conference on Queueing Theory (MCQT'10)**, Toledo, Spain 28/6-1/7/2010. Economou, A. (2010) The single server queue with synchronized repeated services.
5. **7<sup>th</sup> International Workshop in Applied Probability (IWAP2014)**, Antalya, Turkey 16-19/6/2014. Economou, A. (2014) Game Theory meets Queueing: Strategic behavior in service systems.
6. **INFORMS Applied Probability Society Conference 2015 (INFORMSAPS2015)**, Istanbul 5-8/7/2015. Economou, A. (2015) Strategic customers in queueing systems: Bridging observable and unobservable models.

## 3. Short-term visits for research collaborations.

1. North Carolina State University, July 2001 (10 days). Research Collaboration with Professor Xiuli Chao.
2. University Complutense of Madrid, February 2004 (7 days). Research Collaboration with Professor Jesus Artalejo.
3. Technical University of Lisbon – Instituto Superior Tecnico, October 2005 (5 days). Research Collaboration with Professor Antonio Pacheco.
4. Technical University of Eindhoven and EURANDOM, March 2011 (7 days). Research Collaboration with Professors Ivo Adan and Jacques Resing.
5. University Carlos III of Madrid, April 2011 (5 days). Research Collaboration with Dr. Spyridoula Kanta.
6. University Complutense of Madrid, November 2011 (6 days). Research Collaboration with Professors Antonio Gomez-Corral, Jesus Artalejo and Maria Jesus Lopez-Herrero.

## M. Administrative tasks

1. Member of several Departmental committees in the Department of Mathematics, University of Athens:
  - Program of undergraduate studies
  - Coordination of graduate studies
  - ERASMUS
  - Invigilations program
  - Evaluation/selection of graduate students for the MSc program in Statistics and OR
2. Member of several inter-Departmental committees:
  - Coordination of graduate studies in the Mathematics of Market and Production (joint MSc program with the Department of Economics, National & Kapodistrian University of Athens and the Department of Informatics, Athens University of Economics and Business).
3. Member of the senate of the University of Athens (2009)
4. Director of the Section of Statistics and Operations Research, Department of Mathematics, National & Kapodistrian University of Athens (2016-2019).
5. Director of the MSc and Phd programs in Mathematics, Department of Mathematics, National & Kapodistrian University of Athens.

#### **N. Miscellaneous**

1. Member of the Scientific societies:
  - Hellenic Statistical Institute (ESI) (1997 - )
  - Hellenic Society of Operational Research (EEEE) (1997 -2000)
  - American Mathematical Society (AMS) (1993 - 2000)
  - Institute for Operations Research/Management Science (INFORMS) (2001-2003, 2015-2017)
2. I completed my military service in the Greek Army during 1998-1999.
3. Languages: Greek (Native)
  - English (Proficiency in English, University of Michigan)
  - Spanish (Diploma Superior Espanol como Lengua Extranjera, Instituto Cervantes)