Georgios I. Doukidis

1. PERSONAL AND CONTACT DETAILS

Address:	Athens University of Economics and Business (AUEB) 47A Evelpidon & 33 Lefkados str, 113 62, Athens Greece
Telephone:	+30 210-8203663
E-Mail:	gjd@aueb.gr
Nationality:	Greek

2. EDUCATION AND ACADEMIC BACKGROUND

1985 **Ph.D.** in Simulation/Artificial Intelligence
London School of Economics – LSE

1981 **M.Sc. in Operational Research**
London School of Economics

1980 **B.Sc. in Mathematics**
University of Thessaloniki

3. ACADEMIC EXPERIENCE

3.1 Teaching Experience

2000 - now **Professor od eBusiness**, Department of Management Science and Technology, Business School, Athens University of Economics and Business (AUEB)

1995 - 2000 **Professor**, Department of Informatics, AUEB

1996 - 2002 **Visiting Professor**, Department of Information Systems and Computing, Brunel University, UK

1990 - 1995 **Associate Professor**, Department of Informatics, AUEB

1984 - 1990 **Lecturer** in Computing, Department of Information Systems, London School of Economics

1981 - 1984 **Teaching Assistant** in Operational Research, London School of Economics

He has also taught as **Visiting Professor** in various Universities (Business Schools), including the London Business School, Copengahen Business School, International University of Greece

3.2 Managerial and Development Experience

1995-now   Initiator and Director
ELTRUN - The E-Business Research Center, Athens University of Economics and Business
ELTRUN is one of the oldest and largest eBusiness Centers in Academic Europeran Business Schools) **www.eltrun.gr**

2014-now   Scientific Coordinator
EBISE Research Group (E-Business Innovation, Strategy and Entrepreneurship), ELTRUN

2016-2017   Scientific Coordinator
Athens Center for Entrepreneurship and Innovation (ACEin)
ACEin is the incubation center of AUEB and has been selected as one of the 25 Good-Practice Case Studies on University-Business Cooperation (UBC) in Europe and Beyond **www.acein.aueb.gr**

2014-2017   Scientific Coordinator
Innovation and Entrepreneurship Unit, Athens University of Economics and Business
AUEB received the "National Champion" award in the "Promoting the Entrepreneurial Spirit" category of the European Promotion Award 2013
http://www.mke.aueb.gr/

2015-2017   Director
MSc in Management Science and Technology, Department of Management Science and Technology, AUEB
https://management-edu.dmst.aueb.gr/

2013-2016   Member
Academic Board, Athens University of Economics and Business

2001-2005   Head
Department of Management Science and Technology, AUEB
https://www.dept.aueb.gr/el/dmst

4. RESEARCH INTERESTS AND EXPERIENCE

4.1 Research Interests

- **Digital Innovation and Entrepreneurship.** Development and evaluation of business models. Business use of innovative technologies. Growth Models of startups. Assessing technological innovation and knowledge transfer.
- **Innovation in Supply Chain Management**. Data driven innovations in the chuppluy-chain. Consumer analytics in Retail. IoT technology in the sypply-chain
- **Digital Transformation and eBusiness**. Digital innovation assessment. Digital innovation growth models. E-Commerce business models. Multi-Chanel and Omni-Chanel commerce. Business Process modeling techniques for the evaluation of the existing structure and functionality.
- **Decision Making and Artificial Intelligence.** Decision support systems. Discrete event simulation models. Expert systems. Machine Learning for decision making. Natural language understanding systems.

4.2 International Research Projects

He has participated and/or managed more than 80 research projects (40 of which are international). An indicative list of EU funded research projects of the ELTRUN research center is listed below:

HORIZON 2020

- **Factlog**: By incorporating different pipelines of machine learning and analytical tools at different levels (from machines to process steps and from processes to the whole production plant), FACTLOG enables the realization of the Cognitive Factory as an ensemble of independent but intertwined ECTs, that are (i) able to self-learn, and thus to effectively detect and react to anomalies and disruptions but also to opportunities that may arise, (ii) enjoy a local or global view of operations and (iii) are capable for short-, mid- and long-term reasoning and optimization.
- **Coglo:** The project contributes to the Logistics 4.0 Industry by introducing the "Cargo Hitchhiking" concept: a dynamic form of consolidation and delivery merging by utilizing IoT and Analytics technology as the means for identification of possible collaborations in real-time and along the route.
- **I3Market:** The project addresses the increasing need to ignite a European Single Data Market ecosystem by investigating and providing demonstrated implementations of lacking technologies for trusted data-driven collaboration (interoperability) and trading platforms (economy), for both personal data as well as sensitive commercial data assets from SMEs to large industrial corporations.
- **TT- Transforming Transport:** The TransformingTransport project will demonstrate, in a realistic, measurable, and replicable way the transformations that Big Data will bring to the mobility and logistics market, http://transformingtransport.eu
- **DISRUPT:** The project aims to spearhead the transition to the next-generation manufacturing by facilitating the vision of a "Smart Factory". http://disrupt-project.eu
- **EU-XCEL** – Is a Startup Europe initiative which supports aspiring young tech entrepreneurs interested in co-founding new international information, communication and technology (ICT) startups through a new startup scrum training and mentored virtual accelerator initiative (2015 -2017), http://euxcel.eu/
- **ENTROPY** – Design of an innovative energy-aware it ecosystem for motivating behavioural changes towards the adoption of energy efficient lifestyles (2014 – 2017) http://entropy-project.eu/
- **CHARGED** – Addresses the energy consumption in public buildings and proposes a framework that aims to facilitate achieving greater energy efficiency and reductions of wasted energy in public buildings (2016 -2019) www.charged-project.eu/
- **U-TURN** – Aims at addressing freight urban distribution, focusing on food logistics (2015 - 2018) www.u-turn-project.eu/

Erasmus+

- **Take-up:** It aims at uplifting the potential of Pakistani HEIs in the area of entrepreneurial culture, especially the development of entrepreneurial skills in students by improving the coaching process of students, researchers and alumni with strong entrepreneurial intentions.
- **DS&AI:** The main aim of this project is the design and development of a dedicated master degree in Data Science and Artificial Intelligence, in Asian Countries (Thailand, Indonedsia, Shri Lanka) transferring knowledge from European Countries (Greece, Netherlands, Portugal)
- **ENINEDU:** The main aim of ENINEDU is to enhance business-HEI cooperation in consortium countries by changing the paradigm of education in line with Bologna process requirements

FP7

- **SERAMIS**. The objective is to push the boundaries of current RFID implementations, thus turning them into powerful tools for intelligent information management (2013 -2016), http://seramis-project.eu/

- **ARTISAN**. Envisions significant reductions (at least 10%) in energy consumption and CO2 emissions of the European Textile Industry by integrating data-capturing technologies, process-based energy measurement and real-time optimization of operations (2011 -2014) http://www.artisan-project.eu/
- **e-SAVE**. Aims to deliver a modular and extensible information, collaboration and management support infrastructure that does not only capture and deliver the data required for effectively monitoring energy use and other environmental Key Performance Indicators (KPIs), but also provides the management tools that utilize these KPIs and support managerial decisions and every day operations for improving energy and environmental performance (2012 -2015), http://www.e-save.eu
- **RFID in Europe.** Raising Awareness and Competitiveness on RFID in Europe (2012 -2014), http://www.rfidineurope.eu/

FP6

- **SMART.** Intelligent Integration of Supply Chain Processes and Consumer Services based on Unique Product Identification (RFID) in a Networked Business Environment, (2006 -2009) http://www.smart-rfid.eu/

IST

- **INNO.** Innovation Studies – The Internet and Technology Transfer (2000 -2003)
- **DOMINO.** Dynamic Organizational Management for Inter-Firm Network Orchestrations (2001 -2004)
- **GEMINI.** Global Electronic Medium Constellation for Dynamic Content Integration (2001 -2004)
- **ESTIA.** Efficient Electronic Services for Tourists in Action (2000 -2003)
- **TrainSEE.** ATraining in Information Technologies in South Eastern Europe (2001 -2004)
- **SEED.** South Eastern European Digital Economy (2000 -2003)
- **iMEDIA.** Intelligent Mediation Environment for Digital Interactive Advertising (2000 -2003)
- **MYGROCER.** Mobile Shopping of Electronically Referenced Grocery Products (2001 -2004)
- **MB-Net.** A Network of Excellence in mobile business applications and services (2003 -2006)
- **mEXPRESS.** mobile in-EXhibition PRovision of Electronic Support Services (2002 -2005)
- **E-Factors.** A Thematic Network in E-Business Models (2002 -2005)
- **MOBICOM.** Evolution Scenarios for Emerging m-Commerce Services (2000 -2003)
- **CEBOS.** Cost Effective eBusiness Operating Services of SMEs (2001 -2004)

4.3 PHD Supervision

He has supervised successfully 18 PhD students at AUEB, LSE and Brunel. Some of the most recent are listed below:

- Design of Electronic Services Employing Gamification: The impact of game elements on user behaviour and motivation, Dr. Stavros Lounis (2017)

- Shopping Missions and their Impact on Assortment Organization: An Analytics-informed Shopper Marketing Approach, Dr. Panagiotis Sarantopoulos (2016)

- Investigating the role of different types of social media as sources of information: the cases of consumer pre-purchase and health information, Dr. Katerina Fraidaki (2014)

- RFID-Enabled Supply Chain Process Redesign Using Simulation, Dr. Aggeliki Karagiannaki (2011)

- The role of business-to-business electronic services in buyer-supplier collaboration: Organizational Factors affecting Collaborative Supply Chains, Dr. Eleftherios Kioses (2009)

- Consumer Acceptance of Technology-Based Services in Retailing: A Service Science Approach, Dr. Aris Theotokis (2009)

- Machine-learning information system to support out-of-shelf detection in the supply chain, Dr. Dimitris Papakiriakopoulos (2006)

- Applications of moral hazard models in the internet connectivity market, Dr. Ioanna Konstantiou (2003)

- Efficient Store Replenishment through Internet-based information sharing and collaborative supply-chain practices in grocery retailing, Dr. Katerina Pramatari (2003)

5. PUBLICATIONS

He has published more than 140 papers in scientific journals and international conferences proceedings.

5.1.   Journal Papers

- Lazaris, C., Vrechopoulos, A. and Doukidis, G. (2017). Physical Web Atmospherics: Utilizing Internet of Things to Conceptualize Store Atmosphere in Omnichannel Retailing, International Journal of Technology Marketing.
- Sarantopoulos, P. Theotokis, A. Pramatari, K. Doukidis, G. (2016). Shopping missions: An analytical method for the identification of shopper need states, Journal of Business Research, 69, 1043-1052.
- Koutsiouris, V., Vrechopoulos, A. and Doukidis, G. (2016). Classifying, Profiling and Predicting User Behavior in the context of Location Based Services, Journal of Electronic Commerce Research, 17(4) 339-356.
- Karagiannaki, A., Doukidis, G. and Pramatari, K. (2014). A framework for mapping the RFID-enabled process redesign in a simulation model, Journal of the Operational Research Society, 65(11), 1700-1710.
- Pramatari, K., Evgeniou, T. and Doukidis, G, (2010). Implementation of collaborative e-supply chain initiatives: An initial challenging and final success case from grocery retailing. Journal of Information Technology, 24, 269-281.
- Papakiriakopoulos, D. Pramatari, K. Doukidis, G. (2009). A Decision Support System for detecting products missing from the shelf based on heuristic rules. Decision Support Systems, 46(3), 685-694.
- Doukidis, G., Pramatari, K., Lekakos, G., (2008). OR and the Management of Electronic Services, European Journal of Operational Research, 187, 1296-1309.
- Kelepouris, T., Pramatari, K., Doukidis, G.I. (2007) RFID-Enabled Traceability in the Food Supply Chain. Industrial Management and Data Systems, 107(2), 183-200.
- Pramatari, K.C., Doukidis, G.I. (2005) New Forms of Collaboration and Information Sharing in Grocery Retailing: The PCSO Pilot at Veropoulos. Journal of Cases on Information Technology, 7(4), 18-33.
- Vrechopoulos, A., Siomkos, G. and Doukidis, G. (2005) Consumer Attitudes towards Internet Shopping Adoption in Greece, Cultural Technology and Policy Journal, 1(1).
- Vrechopoulos, A., O'Keefe, R., Doukidis, G. and Siomkos, G. (2004). Virtual Store Layout: An Experimental Comparison in the Context of Grocery Retail, Journal of Retailing, 80(1), 13-22.
- Vrechopoulos, A., Pramataris, K., Doukidis, G. and Lekakos, G. (2003) An Internet Retailing Data Framework for Supporting Consumers and Business Processes, Information Systems Journal, 13(4), 353-373.
- Vrechopoulos, A., Constantiou, I., Mylonopoulos, N., Sideris, I. and Doukidis, G. (2003) The Critical Role of Consumer Behavior Research in Mobile Commerce, International Journal of Mobile Communications, 1(3), 329-340.
- Vrechopoulos, A., Pramatari, K., Doukidis, G., Lekakos, G. (2003). A User-Support Data Framework for Internet Retailing, Internat. Journal of Innovation and Learning, 1(1), 56-71.
- Vlachos, P., Vrechopoulos, A. and Doukidis, G. (2003) Exploring Consumer Attitudes towards Mobile Music Services, The International Journal on Media Management, 5(2), 138-148.
- Pramatari, K., Papakiriakopoulos, D., Poulymenakou, A., Doukidis, G. (2002) New forms of CPFR. International Commerce Review, 2(2), 38-43.
- Doukidis, G. and Pramatari, K. (2001) Alternative Business Models for Electronic Grocery Retailing. International Commerce Review, 1(1), 45-49.
- Vrechopoulos, A., Siomkos, G. and Doukidis, G. (2001). Internet Shopping Adoption by Greek Consumers, European Journal of Innovation Management, 4(3), 142-152.
- Pramatari,K. Vrechopoulos, A.&Doukidis, G. (2000) The Transformation of the Promotion Mix in the Virtual Retail Environment: An Initial Framework and Comparative Study, Intl Journal of New Product Development and Innovation Management, 2(2),163-178.

- Vrechopoulos, A., Siomkos, G. and Doukidis, G. (2000) The Adoption of Internet Shopping by Electronic Retail Consumers in Greece: Some Preliminary Findings, Journal of Internet Banking and Commerce, 5(2).
- Giaglis, G., Paul, R. and Doukidis, G. (1999), Assessing the impact of Electronic Commerce on Business Performance, Electronic Markets, 9(1/2), 1-7.
- Giaglis, G., Paul, R. and Doukidis, G. (1999). Dynamic Modeling to assess the Business value of Electronic Commerce, International Journal of Electronic Commerce, 3(3), 35-52.
- Giaglis, G., Paul, R. and Doukidis, G (1997). Simulation for Intra- and Interorganisational Business Process Modeling, Informatica, 21(4), 613-620.
- Doukidis, G., Pallikarakis, N., Pangalos G., Vassilacopoulos G, Pramataris K. (1996). EDI system definition for a European medical device vigilance system, Medical Informatics, 21(3), 233-244.
- Doukidis, G., Lybereas, P. and Galliers, B. (1995). Information Systems Planning in Small Business, Journal of Systems and Software, 13(2), 202-216.
- Doukidis, G. and Karakoulas , G. (1994). Feasibility study and impact assessment for a knowledge-based information technology planning system, The Journal of Knowledge-Based Systems, 7(1), 27-36.
- Doukidis G., Cornford, T. and Forster, D. (1994). Medical Expert Systems for Developing Countries: Evaluation in Practice, Journal of Expert Systems with Applications, 7(1), 221-233.
- Doukidis, G., Mylonopoulos, N. and Lybereas, P. (1994). Strategic Information Systems Planning within Medium Environments: a critique of Information Systems growth models. The International Transactions in Operational Research, 1(2), 293-303.
- Doukidis, G. and Angelides, M. (1994). A Framework for Integrating Artificial Intelligence and Simulation, Artificial Intelligence Review, 8, 55-85.
- Doukidis, G., Smithson, S. and Lybereas, T. (1994). Trends in Information Technology in Small Business, The Journal of End-User Computing, 6(4), 15-25.
- Cornford, T., Doukidis, G. and Forster, D. (1994). Experience with a Structure, Process and Outcome Framework for Evaluating an Information System, OMEGA, 22(5), 491-504.
- Avgerou, C. and Doukidis, G. (1993). Information systems in Greece: the need for context related research, The European Journal of Information systems, 2(2), 69-75.
- Doukidis, G., Smithson, S. and Naoum, G. (1992). Information Systems Management in Greece: Issues and Perceptions, The Journal of Strategic Information Systems, 1(2), 63-75.
- Cornford, T. and Doukidis, G. (1991). An Investigation of the use of computers within Operational Research, The European Journal of Information systems, 1(2), 131-140.
- Doukidis, G., and Paul, R.J. (1991). SIPDES: a Simulation Program Debugger using an Expert System, The Journal of Expert Systems with Applications, 2, 153-165.
- Doukidis, G.,Paul, R.J. (1990). A survey of the application of Artificial Intelligence Techniques within the OR Society, The Journal of the Operational Research Society, 41(5), 363-375.
- Angelides, M. and Doukidis, G. (1990). Intelligent Tutoring systems: is there a place in OR?, The Journal of the Operational Research Society, 41(6) 491-503.
- Doukidis, G. and Forest, D. (1990). The potential of computer-aided diagnosis of tropical diseases in developing countries: An expert system case study, The European Journal of the Operational Research, 49, 271-278.
- Doukidis, G., Rogers, R. and Angelides, M. (1989). Developing a Pascal tutoring aid, the Journal Computers - and Education: an International Journal, 13(4), 367-378.
- Doukidis, G., Angelides, M. and Harlow (1989). Towards an Intelligent Tutoring System for Pascal Programming, International Journal of Education and Computing, 4, 273-286.
- Doukidis, G. (1988). Decision Support System concepts in Expert Systems: an empirical study, Decision Support Systems, 4(3), 345-354.
- Paul, R.J. and Doukidis, G. (1987). Artificial Intelligence aids in Discrete event Digital Simulation Modelling, In the special issue of the IEE Proceedings Journal on A.I in Engineering, 134(4), 278-286.
- Doukidis, G. (1987). An Anthology of the Homology of Simulation with Artificial Intelligence. Journal of the Operational Research Society, 38(8), 701-712.
- Doukidis, G. and Whitley, E. (1987). Developing and running Expert Systems with PESYS, the Journal of Future Generation Computer Systems, (North-Holland), 3(4), 189-199.

- Paul, R.J. and Doukidis, G. (1986). Further developments in the use of Artificial Intelligence Techniques which formulate simulation Problems, Journal of the Operational Research Society, 37(8), 787-810.
- Doukidis, G., and Paul, R.J. (1985). Research into Expert Systems to Aid Simulaiton Model Formulation, Journal of the Operational Research Society, 36 (4), 319-325.

5.2. Books with International Publishers

He has published16 books (or edited volumes), the following 9 with international publishers:
- Interactive Digital Television: Technologies and Applications (with G. Lekakos, K. Chorianopoulos Eds), IGI Global, (2007)
- Consumer Driven Electronic Transformation: Applying New Technologies to Enthuse Consumers and Transform the Supply Chain (with A.P. Vrechopoulos Eds), Springer; (2005).
- Social and Economic Transformation in the Digital Era (with N. Mylonopoulos, N. Pouloudi Eds), IGI Global, (2003).
- Decision Making: Recent Developments and Worldwide Applications (Applied Optimization, Volume 45) (with St. H. Zanakis C. Zopounidis Eds), Springer; (2000)
- Information Systems in a National Context (with S. Smithson), Avebury Publishers (1995)
- Artificial Intelligence in Operational Research (with R. Paul, Eds), MacMillan, UK (1992)
- Knowledge Based Management Support Systems (with F. Land & G. Miller, Eds), Ellis Horwood, UK (1989)
- Lisp: from Foundations to Applications (with M.Angelides&V. Shah, Chartwekk-Bratt, (1988)
- Developing Expert Systems (with E. Whitley, Chartwell-Bratt, UK (1988)

6. DISTINCTIONS

6.1. Editorial and International Conference Chair

- He has acted 7 times as **Guest editor** in the Journals: Journal of the O.R. Society (1990, twice), European Journal of Information Systems (1993), International Journal of Electronic Commerce (1999), Journal of Information Technology (1999), International Journal of Electronic Commerce (2003), Supply Chain Management: An International Journal (2007).
- **Editorial Board** in the following International Scientific Journals: European Journal of Information Systems, Journal of Strategic Information Systems, International Journal of Information Management, Journal of Decision Systems, International Journal of Electronic Markets, Business Process Management Journal, Information Systems and eBusiness Management Journal, International Journal of Mobile Communication etc.
- He has acted as **Conference Chairman** or **Program Chairman** in the following conferences:
  - 16th IFIP WG8.3 International Conference on Decision Support Systems (2012)
  - 4th Mediterranean Conference on Information Systems (2009)
  - International Conference on Mobile Business (2002)
  - International Conference on the Decision Sciences Institute (1999)
  - International BLED Electronic Commerce Conference (1998)
  - European Conference on Information Systems (1995)

6.2. International Awards

- European ECR Best Activation Award, that recognises the very best implementation of a collaborative business practice within Europe, for the project "Shopping Missions: Business Analytics and Virtual Reality Serving Shopper Needs" in collaboration with Marinopoulos and Procter & Gamble Hellas (2015)
- ECCH European Case Study Award in the Category "Knowledge, Information and Communication Systems Management", with the case study "Internet Enabled Collaborative Store Ordering: Veropoulos Spar Retailer" (Evgeniou T., Pramatari, K. co-authors) (2009)
- Microsoft European Retail Application Developer (RAD) Award. Special Award 'Greatest Business Impact' for the development of Internet-based collaboration services to support the management of the grocery supply chain. (2002)