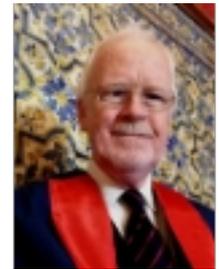


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## Duarte Trigueiros

### Integrated Researcher

ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre



### Contacts

#### E-mail

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### Curriculum

**HISTORY:** Duarte studied in Madrid and Lisbon, where he obtained a degree in telecommunications. He then joined the research staff of the Portuguese Nuclear Authority (1970). In 1977 he moved to Porto, where he worked as a systems analyst for the Portuguese Electricity Holding (EDP) and other companies. In 1986, Duarte was appointed as a lecturer at the University Institute of Lisbon (ISCTE-IUL). A year later, he was sent to the UK (University of East Anglia) as a research student and obtained his PhD in 1991. In 1995, he was seconded to the University of Macau (China), where he remained until 2001. He then worked at the University of Algarve in Faro until 2013 and also taught at the ISCTE-IUL in Lisbon. **PRESENTLY,** Duarte is a researcher at the University Institute of Lisbon, having retired from the Algarve. He is a visiting professor at universities in Macau. At the undergraduate level, Duarte teaches business courses in Accounting and IS. At the postgraduate level, Duarte teaches interdisciplinary subjects related to accounting and finance that require mathematics, statistics and econometrics, such as business intelligence and financial modelling. In addition to teaching, Duarte also supervises research in areas such as bank capital requirements under the Basel Accords. Read more at <https://home.iscte-iul.pt/~dmt/>

### Research Interests

Análise Financeira

Extracção e modelação de Conhecimento

Capital requirements under the Basel Accords

Credit risk

## Academic Qualifications

University/Institution	Type	Degree	Period
Universidade do Algarve	Aggregation	-	2003
University of East Anglia, School of Information Systems	PhD	Doctor of Philosophy	1991
Instituto Superior Técnico (IST) Lisboa	Licenciante	Engenharia Electrotécnica, ramo de Telecomunicações e Electrónica	1970

## Supervisions

### • Ph.D. Thesis

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	João Ricardo Paulo Marques Guerreiro	Three essays on cause-related marketing effectiveness	--	Iscte	2015
2	Anna Vong Pou lu	Underpricing in Initial Offerings: a Novel Theoretical Framework and Empirical Methodology	English	Iscte	2000

### • M.Sc. Dissertations

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Hélder Rodrigues Vilela Tack	Educational data mining: modelação do impacto do Programa de Modernização das Escolas com Ensino secundário no desempenho escolar	Portuguese	Iscte	2013
2	Nuno Miguel Antunes Ferreira	Analítica: Mapa de visualização gráfica da informação agregada do País, um sistema de apoio à decisão	Portuguese	Iscte	2012
3	Susana Isabel da Silva Fortes Ribeiro Fernandes	O uso da Data Mining na Previsão do Desempenho das Empresas: Estudo de Casos no âmbito do SIME- Sistemas de Incentivo à Modernização Empresarial	Portuguese	Iscte	2012
4	Carla Helena Bandeira Santos Monteiro Nogueira	--	--	Iscte	2011
5	Felipe Fernández Viz	--	--	Iscte	2011

## Total Citations

Web of Science®	329
Scopus	431

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	Vong, A. P. I. & Trigueiros, D. (2025). Improved methods for identifying the operational determinants of a bank's capital ratio. <i>Applied Economics</i> . 57 (33), 5001-5014
2	Trigueiros, D. (2019). Improving the effectiveness of predictors in accounting-based models. <i>Journal of Applied Accounting Research</i> . 20 (2), 207-226 - Times Cited Scopus: 2 - Times Cited Google Scholar: 11
3	Farias, A. R., Ferreira, L. & Trigueiros, D. (2018). Analyzing customer profitability in hotels using activity based costing. <i>Tourism and Management Studies</i> . 14 (3), 65-74 - Times Cited Web of Science®: 12 - Times Cited Google Scholar: 28
4	Trigueiros, D. & Sam, C. (2018). Discovering the optimal set of ratios to use in accounting-based models. <i>International Journal of Society Systems Science</i> . 10 (2), 110-131 - Times Cited Google Scholar: 3
5	Vong, A. P. I. & Trigueiros, D. (2017). Evidence on the effect of Claw-Back provisions on IPO share allocation and underpricing in Hong Kong. <i>Applied Economics</i> . 49 (51), 5231-5244 - Times Cited Web of Science®: 2 - Times Cited Scopus: 3 - Times Cited Google Scholar: 6
6	Guerreiro, J., Rita, P. & Trigueiros, D. (2016). A text mining-based review of cause-related marketing literature. <i>Journal of Business Ethics</i> . 139 (1), 111-128 - Times Cited Web of Science®: 150 - Times Cited Scopus: 146 - Times Cited Google Scholar: 241
7	Trigueiros, D. & Sam, C. (2016). A software application to streamline and enhance the detection of fraud in published financial statements of companies. <i>International Journal on Advances in Software</i> . 9 (1-2), 95-106
8	Trigueiros, D. (2015). Um olhar sobre o livro "Reforma da administração pública: uma análise comparativa". <i>Administração: Revista da Administração Pública de Macau</i> . 107 (1), 325-344 - Times Cited Google Scholar: 3

9	Farias, A., Trigueiros, D. & Ferreira, L. F. (2015). A utilização do Uniform System of Accounting for the Lodging Industry (USALI) em Portugal: o caso do Algarve. <i>Revista Iberoamericana de Contabilidad de Gestión</i> . 13 (26) - Times Cited Google Scholar: 13
10	Guerreiro, J., Rita, P. & Trigueiros, D. (2015). Attention, emotions and cause-related marketing effectiveness. <i>European Journal of Marketing</i> . 49 (11-12), 1728-1750 - Times Cited Web of Science®: 118 - Times Cited Scopus: 101 - Times Cited Google Scholar: 222
11	Trigueiros, D. (2014). Avaliação do desempenho da administração local na Europa: uma análise comparativa das experiências de Portugal, Grã-Bretanha, França, Suécia e Alemanha . <i>Administração: Revista da Administração Pública de Macau</i> . 27 (104), 337-356
12	Vong, A. P. I. & Trigueiros, D. (2014). Reversal in the relative performance of state- and legal person-owned companies during the Chinese split share structure reform. <i>Applied Economics</i> . 46 (15), 1728-1750 - Times Cited Google Scholar: 2
13	Ana Rita Faria, Duarte Trigueiros & Leonor Fernandes Ferreira (2012). Costing and management control practices in the Algarve hotel sectors. <i>Tourism and Management Studies</i> . 8 - Times Cited Google Scholar: 6
14	Farias, A., Trigueiros, D. & Ferreira, L. F. (2012). Práticas de custeio e controlo de gestão no setor hoteleiro do Algarve. <i>Tourism and Management Studies</i> . 1 (8), 253-261
15	Vong, A. P. I. & Trigueiros, D. (2010). The short-run price performance of initial public offerings in Hong Kong: new evidence. <i>Global Finance Journal</i> . 21 (3), 253-261 - Times Cited Web of Science®: 12 - Times Cited Scopus: 15 - Times Cited Google Scholar: 55
16	Vong, A. P. I. & Trigueiros, D. (2009). An empirical extension of Rock's IPO underpricing model to three distinct groups of investors. <i>Applied Financial Economics</i> . 19 (15), 1257-1268 - Times Cited Scopus: 5 - Times Cited Google Scholar: 14
17	McLeay, S. & Trigueiros, D. (2002). Proportionate growth and the theoretical foundations of financial ratios. <i>Abacus</i> . 38 (3), 297-316 - Times Cited Scopus: 20 - Times Cited Google Scholar: 56
18	Trigueiros, D. (1998). Índices de tracking da pressão arterial num estudo longitudinal de crianças e adolescentes. <i>Revista Portuguesa de Cardiologia</i> . 17 (3), 243-249 - Times Cited Scopus: 5 - Times Cited Google Scholar: 5
19	Macedo, M. A., Lima, M. J., Pizarro, M., Trigueiros, D., Lopes, L., Pinto, A. T....de Freitas, A. F. (1997). Estudo da pressão arterial numa população de jovens e adultos jovens observados após um período de 17 anos. <i>Revista Portuguesa de Cardiologia</i> . 14 (11), 887-890 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
20	Macedo, M. A., Trigueiros, D. & de Freitas, A. F. (1997). Factor analysis, a more accurate method to be used in epidemiological studies of blood pressure in children. <i>Revista Portuguesa de Cardiologia</i> . 16 (2), 141-146

21	Trigueiros, D. & Macedo, M. (1997). Estudo da pressão arterial numa população de jovens e adultos jovens observados após um período de 17 anos. <i>Revista Portuguesa de Cardiologia</i> . 16 (11), 887-892 - Times Cited Google Scholar: 2
22	de Macedo, M., Trigueiros, D. & de Freitas, F. (1997). Prevalence of high blood pressure in children and adolescents. Influence of obesity. <i>Revista Portuguesa de Cardiologia</i> . 16 (1), 27-30 - Times Cited Web of Science®: 26 - Times Cited Scopus: 33 - Times Cited Google Scholar: 77
23	Trigueiros, D. (1997). Non-proportionality in ratios: an alternative approach. <i>The British Accounting Review</i> . 29 (3), 213-230 - Times Cited Scopus: 4 - Times Cited Google Scholar: 16
24	Trigueiros, D. & Taffler, R. (1996). Neural networks and empirical research in accounting. <i>Accounting and Business Research</i> . 26 (4), 347-355 - Times Cited Scopus: 24 - Times Cited Google Scholar: 78
25	Trigueiros, D. (1995). Accounting identities and the distribution of ratios. <i>The British Accounting Review</i> . 27 (2), 109-126 - Times Cited Scopus: 17 - Times Cited Google Scholar: 52
26	Trigueiros, D. (1994). Incorporating complementary ratios in the analysis of financial statements. <i>Accounting, Management and Information Technologies</i> . 4 (3), 149-162 - Times Cited Scopus: 9 - Times Cited Google Scholar: 23
27	Faria, V., Reis, M. & Trigueiros, D. (1994). Renal adenoma, identification of two histologic types. <i>European Urology</i> . 26 (2), 170-175 - Times Cited Scopus: 7 - Times Cited Google Scholar: 7
28	Espiga de Macedo, M., Trigueiros, D. & Falcão Freitas, A. (1990). Aggregation of blood pressure in families: genetic and environmental influences. <i>Journal of Human Hypertension</i> . 4 (4), 303-306 - Times Cited Scopus: 9
29	Oliveira, J. C., Da Veiga, C. M., Trigueiros, D. F. & Duarte, J. P. (1975). Data acquisition and processing system for reactor noise analysis. <i>Annals of Nuclear Energy</i> . 2 (2-5), 149-159

## • Books and Book Chapters

### - Book author

1	Duarte Trigueiros (2016). <i>Fraud prevention and detection methods: technologies and vendors</i> .
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### - Book chapter

1	Duarte Trigueiros (2005). The use of accounting data in statistical models. In Covas (Ed.), <i>Estudos II</i> . (pp. 477-494).: Faculty of Economics, University of Algarve (Faro). - Times Cited Google Scholar: 4
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2	Duarte Trigueiros (2004). O fundamento economico da Contabilidade. In Covas (Ed.), Estudos II. (pp. 275-284).: Faculty of Economics, University of Algarve (Faro).
3	Duarte Trigueiros (2004). A Informacao contida nas rubricas contabilisticas relativa a direcao dos lucros no ano subsequente. In Covas (Ed.), Estudos II. (pp. 331-354).: Faculty of Economics, University of Algarve (Faro).
4	Duarte Trigueiros (2004). The Impact of the introduction of international accounting standards in China. In Covas (Ed.), Estudos II. (pp. 355-376).: Faculty of Economics, University of Algarve (Faro).
5	Duarte Trigueiros (1996). A taxonomy of risk in large UK industrial firms. In Robert Blanning and David King (Ed.), Organizational Intelligence: AI in organizational design, modelling and control. (pp. 115-124). Los Alamitos, CA: IEEE Computer Society Press (Los Alamitos, CA). - Times Cited Google Scholar: 2
6	Duarte Trigueiros & Berry, R. H. (1993). Applying neural networks to the extraction of knowledge from accounting reports: A classification study. In Robert R Trippi, Efraim Turban (Ed.), Neural networks in finance and investing: Using artificial intelligence to improve real-world performance. (pp. 103-123). New York: Probus. - Times Cited Google Scholar: 21

## • Conferences/Workshops and Talks

### - Publication in conference proceedings

1	Trigueiros, D. (2024). The detection of misstated financial reports using XBRL mining and intelligible MLP. In Kevin Daimi, Abeer Al Sadoon (Ed.), Proceedings of the Third International Conference on Innovations in Computing Research (ICR'24). (pp. 40-50). Athens: Springer.
2	Duarte Trigueiros (1995). Rule Induction for financial modelling and model interpretation. In Nunamaker and Sprague (Ed.), Organisational Systems and Technology: Proceedings of the 28 Hawaii International Conference on Systems Sciences (HICSS). (pp. 177-186).: IEEE Computer Society Press (Los Alamitos, CA). - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
3	Duarte Trigueiros (1993). A Taxonomy of Risk in Large UK Industrial Firms. In Nunamaker and Sprague (Ed.), Organisational Systems and Technology: Proceedings of the 26 Hawaii International Conference on System Sciences. (pp. 587-596).: IEEE Computer Society Press (Los Alamitos, CA).
4	Duarte Trigueiros (1991). The application of neural network-based methods to the extraction of knowledge from accounting reports. In Nunamaker and Sprague (Ed.), Organisational Systems and Technology: Proceedings of the 24 Hawaii International Conference on System Sciences. (pp. 136-146).: IEEE Computer Society Press (Los Alamitos, CA). - Times Cited Scopus: 20
5	Duarte Trigueiros (1990). The application of Neural Network-based methods to the extraction of knowledge from accounting reports. In Turkman and Carvalho (Ed.), Actas da I Conferência em Estatística e Optimização. (pp. 595-609).: Faculty of Sciences, University of Lisbon.

## • Other Publications

### - Other publications

1	<p>Guerreiro, J. &amp; Duarte Trigueiros (2010). A Unified Approach to the Extraction of Rules from Artificial Neural Networks and Support Vector Machines. <i>Advanced Data Mining and Applications</i>. 6441, 34-42</p> <ul style="list-style-type: none"><li>- Times Cited Web of Science®: 6</li><li>- Times Cited Scopus: 8</li><li>- Times Cited Google Scholar: 16</li></ul>
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**- Newspaper article**

1	<p>Ana Rita Faria, Leonor Fernandes Ferreira &amp; Duarte Trigueiros (2019). Orçamentação nos hotéis do Algarve: Alinhamento com a prática internacional. <i>Dos Algarves: A Multidisciplinary e-Journal</i>. 34, 3-25</p> <ul style="list-style-type: none"><li>- Times Cited Web of Science®: 3</li><li>- Times Cited Google Scholar: 7</li></ul>
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