



**Research and Development Unit in
Mechanical and Industrial Engineering**

Systems & Engineering Management – SEM

Publications List

(2008 to 2014)

Publications in peer reviewed journals**2008**

1. Antão P., Almeida T., Jacinto C. and Guedes Soares C. (2008). Causes of occupational accidents in the fishing sector in Portugal. *Safety Science* Vol. 46(6), pp.885-899. SCOPUS, WoS
2. Antunes MG., Pires A.M.R. and Cruz-Machado V. (2008). Economics aspects and organisational performance – a study in Setúbal Care Homes for Elderly Persons. *Journal of Total Quality Management & Business Excellence*, Vol. 19, Issue 1, pp. 79-89 OTHERS
3. Branco R., Antunes F.V., Martins R..F. (2008). Modelling fatigue crack propagation in CT specimens, *Fatigue Fract Engng Mater Struct*, 31, pp. 452-465. SCOPUS, WoS
4. Cabrita M.R. and Bontis N. (2008). Intellectual capital and business performance in Portuguese banking industry. *International Journal of Technology Management*, Vol.43, Nº1/3, pp.212-237. SCOPUS, WoS
5. Cabrita M.R. and Vaz J.L. (2008). Creating value from intellectual capital: An approach based on the specification of models. *Portuguese Journal of Management Studies*, Vol. XIII, 2. OTHERS
6. Cavique M. and Gonçalves-Coelho A.M. (2008). Axiomatic Design and HVAC Systems: an efficient design decision-making criterion. *Energy and Buildings*, Vol. 41, n. 2, p. 146-153. SCOPUS, WoS
7. Fernandes P., Teixeira J., Ferreira J. and Azevedo S., (2008), Modeling Tourism Demand: A Comparative Study between Artificial Neural Networks and The Box-Jenkins Methodology, *Romanian Journal for Economic Forecasting*, Vol. 5, Nº 3, pp. 30-50. ISSN 1582-6163 SCOPUS, WoS
8. Gramescu T., Gonçalves-Coelho A.M., Pruteanu O., Merticaru Jr. V. 2008. "Aspects Concerning The Influence Of Some Factors Upon The Chip Removal Forces At Drilling On Some Cast Irons", *Buletinul Institutului Politehnic Iasi, Tomul LIV: 79 - 86*. OTHERS
9. Jacinto C., and Guedes Soares C., (2008). The added value of the new ESAW/ Eurostat variables in accident analysis in the mining and quarrying industry. *Journal of Safety Research*, 39(6), pp.631-644. SCOPUS, WoS
10. Malarranha C., Puga Leal R. and Pereira Z. L. (2008). "Application of quality methodologies to the development of a website". *International Journal of Internet and Enterprise Management*, Vol. 5, nº4, pp. 313-332. OTHERS
11. Martins R..F., Branco C.M., Gonçalves-Coelho A.M., Gomes E.C. (2008), A failure analysis of exhaust systems for naval gas turbines. Part II: Design changes , *Engineering Failure Analysis* (2008) SCOPUS, WoS
12. Martins R..F., Branco C.M., Gonçalves-Coelho A.M., Gomes E.C. (2008), "Failure Mechanisms on Exhaust Systems of Naval Gas Turbines", *Materials Science Forum* (ISSN 0255-5476), 587-588:946-950 SCOPUS, WoS
13. Martins R..F., Branco C.M., Gonçalves-Coelho A.M., Gomes E.C., A failure analysis of exhaust systems for naval gas turbines. Part I: Fatigue life assessment. *Engineering Failure Analysis* (2008) SCOPUS, WoS
14. Matos A. S., Requeijo J. G., Pereira Z. L. (2008), "Integration of Engineering Process Control and Statistical Control in Pulp Industry", *Computer Aided Chemical Engineering*, Vol. 25, pp. 399-404, SCOPUS, WoS
15. Matulea I., Nastase A., Talmaciu N., Slamnoiu G., Gonçalves-Coelho A.M., "On the Equilibrium Configuration of Mooring and Towing Cables", *Applied Ocean Research* (ISBN 0141-1187), *Applied Ocean Research*, n. 30, p. 81-91, 2008. SCOPUS, WoS
16. Mourão A.J.F., Martins R..F., Gonçalves-Coelho A.M. (2008). Selection of engineering materials at conceptual level based on axiomatic design, *Academic Journal of Manufacturing Engineering* 6, 4: pp. 59 – 64. SCOPUS

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1. Azevedo S. and Ferreira J. (2009), "The contribution of resources and capabilities to the competitiveness: The case of Port of Sines", *Chinese Business Review*, Vol. 8, No. 3, pp. 14-26 OTHERS
2. Azevedo S. and Ferreira J. (2009) "RFID Technology in Retailing: An Exploratory Study on Fashion Apparels", *IUP Journal of Managerial Economics*, Vol. 7, No. 1, pp. 7-22 OTHERS
3. Cabrita M.R. (2009). Intellectual capital: A phenomenon of interrelationships. *International Journal of Business and Systems Research*, Vol.3, Nº2, pp.229-256 SCOPUS
4. Costa N., Pires R., Fontes P. (2009). "Computer experiments: application to the case of a recovery boiler", *International Journal of Productivity and Quality Management* 4, 4: 418 - 436. SCOPUS

5. Cruz H.J.T., Martins R.F., Viegas J.C.G., Aveiro J.L.G. (2010). Redesign of exhaust systems for naval gas turbines: usage of a new Cr-Mn austenitic stainless steel, *Materials Science Forum, Advanced Materials Forum V*, Vols. 636-637, pp. 497-503. SCOPUS, WoS
6. Dias J., Azevedo S., Ferreira J. and Palma S. (2009) A Comparative Benchmarking Analysis of Main Iberian Container Terminals: a DEA Approach, *International Journal Shipping and Transport Logistics*, Vol. 1, No. 3, pp. 260-275. SCOPUS
7. Dodun O., Gonçalves-Coelho A.M., Slatineanu L., Nagît, G.. 2009. "Using wire electrical discharge machining for improved corner cutting accuracy of thin parts", *International Journal of Advanced Manufacturing Technology* 41, 9-10: 858 - 864. SCOPUS, WoS
8. Buruiana F., Banu M., Gonçalves-Coelho A.M., Epureanu A., Buruiana. A., 2009. "Value Stream Map and Kaizen Concept Implemented in a Shaft Manufacturing Chain", *The Annals of the "Dunarea de Jos" University of Galati, Fasc. V, Technologies in Machine Manufacturing*, 27: 389 - 394. SCOPUS
9. Ferreira J., Azevedo S. and Raposo M. (2009) The Role of Small and Medium Enterprises in Internationalization: A Cluster Policy Approach for SME in Portugal", *Knowledge Hub*, Vol. 5, No. 1, pp. 33-44. OTHERS
10. Jacinto C., Canoa M. and Guedes Soares C., (2009). Workplace and organisational factors in accident analysis within the food industry. *Safety Science*, 47(5), pp.626-635. SCOPUS, WoS
11. Nunes I.L. (2009) FAST ERGO_X—a tool for ergonomic auditing and work-related musculoskeletal disorders prevention, *WORK*, Vol. 34 (2) pp 133-148 SCOPUS, WoS
12. Nunes I.L. (2009) Ergonomic Risk Assessment Methodologies for Work-Related Musculoskeletal Disorders: A Patent Overview, in *Recent Patents on Biomedical Engineering*, Vol. 2, No 2, pg. 121-132 SCOPUS, WoS
13. Ferreira P., Melo I., Gonçalves-Coelho A.M. ,Mourão A.J.F.. 2009. "Plasma Cutting Optimization by Using the Response Surface Methodology", *The Annals of The "Dunarea de Jos" University of Galati, Fasc. V, Technologies in Machine Building*, 27: 213 - 218. SCOPUS
14. Slatineanu, L., Coteata, M., Pop N., Mazuru S., Coelho A., Besliu I. Impact phenomena at the abrasive jet machining. *Revista de Tehnologii Neconventionale - Nonconventional Technologies Review*, 1, 2009, Editura Politehnica, 96-99, ISSN 1454-3087. OTHERS
15. Slatineanu L., Dodun O., Coteata M., Goncalves-Coelho A., Besliu I., Pop N. Machining methods based on the impact effects. *International Journal of Modern Manufacturing Technologies*. Vol. 1, 1, 2009, Politehnum Publishing House, 83-88, ISSN 2067-3604. IET Inspec. OTHERS
16. Slatineanu L., Coteata M., Gonçalves-Coelho A.M. , Braha V., Purcariu. R., Radeanu A. 2009. "Metallurgical Phenomena at the Surface Alloying and Deposition by Electrical Discharges", *Metalurgia International* 14, 12: 229 - 234. SCOPUS, WoS
17. Tanco Martin, Costa N., Viles E. 2009. "Experimental design selection: guidelines for practitioners", *International Journal of Productivity and Quality Management* 4, 3: 283 - 302. CN=6 SCOPUS

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1. Azevedo S., Ferreira J. (2010), "Innovative information technology in the service sector: RFID technology applications in retailing and healthcare", *International Journal of Services Sciences*, Vol. 3, No.2/3 pp. 105 - 132. OTHERS
2. Azevedo S., Ferreira J. (2010), Radio Frequency Identification Technology (RFID): A Case Study on Healthcare Organisations, *International Journal of Security and Networks*, Vol. 5, No. 2/3, pp. 147-155. SCOPUS
3. Cabeças J.M. (2010). The Friction Force Mouse-Pad and the Forearm Muscles Efforts. *The Ergonomics Open Journal*, Bentham Science Publisher, (3), 1-13. (doi: 10.2174/1875934301003010001; ISSN: 1875-9343 OTHERS
4. Carvalho H., Azevedo S. G., and Cruz-Machado V., "Supply chain performance management: lean and green paradigms," *International Journal of Business Performance and Supply Chain Modelling*, Vol. 2, No. 3/4, pp. 151-179, 2010. OTHERS
5. Costa N. R. P. 2010. "Multiple response optimisation: methods and results", *International Journal of Industrial and Systems Engineering* 5, 4: 442 - 442. SCOPUS
6. Costa N. R. P. 2010. "Simultaneous Optimization of Mean and Standard Deviation", *Quality Engineering* 22, 3: 140 - 149. SCOPUS, WoS,
7. Costa N. R., Pereira Z.L. 2010. "Multiple response optimization: a global criterion-based method", *Journal of Chemometrics* 24, 6: 333 - 342. SCOPUS, WoS,

8. Cruz H.J.T., Martins R.F., Viegas J.C.G., Aveiro J.L.G. (2010). Redesign of exhaust systems for naval gas turbines: usage of a new Cr-Mn austenitic stainless steel, *Materials Science Forum, Advanced Materials Forum V*, Vols. 636-637, pp. 497-503. SCOPUS, WoS,
9. Gonçalves-Coelho A.M., Nestian G., Mourão A.J.F.. (2010). "On the Pattern of the Design Matrix in Redundant Design Solutions", *Buletinul Institutului Politehnic din Iasi*, 2: 1 - 7. CNCSIS: OTHERS
10. Grilo A., Jardim-Goncalves R. "Value proposition on interoperability of BIM and collaborative working environments." *Automation in Construction* Volume: 19 Issue: 5 Pages: 522-530 Published: 2010 SCOPUS, WoS,
11. Grilo A., Jardim-Goncalves R. Building information modeling and collaborative working environments (2010). Guest Editor of Special Issue in *Automation in Construction*, Volume: 19 Issue: 5 Pages: 521. SCOPUS, WoS,
12. Jacinto C., and Silva, C. (2010). A semi-quantitative assessment of occupational risks using bow-tie representation. *Safety Science*, 48(8), pp.973–979. SCOPUS, WoS-CN=4(Google=7); Q1. DOI:10.1016/j.ssci.2009.08.008
13. Jardim-Goncalves R., Grilo A.. (2010). SOA4BIM: Putting the building and construction industry in the Single European Information Space. *Automation in Construction* Volume: 19 Issue: 4 Pages: 388-397. SCOPUS, WoS,
14. Jardim-Goncalves R., Grilo A.. Building information modeling and interoperability. Guest Editor of Special Issue *Automation in Construction* Volume: 19 Issue: 4 Pages: 387 Published: 2010. SCOPUS, WoS,
15. Jardim-Goncalves R., Grilo A., Hassan, Tarek; et al. Semiotics-based manufacturing systems integration in the advent of a single electronic market. *International Journal of Computer Integrated Manufacturing* Volume: 23 Issue: 8-9 Pages: 832-851 Published: 2010 . SCOPUS, WoS,
16. Mourão A.J.F., Slatineanu L., Gonçalves-Coelho A.M. 2010. The Effect of Wiper Edge Inserts on the Specific Cutting Energy in Face Milling of Aluminium Alloys. *International Journal of Modern Manufacturing Technologies*, 2(2): 71-76, 2010. IET Inspec. OTHERS
17. Nunes I.L. (2010) Handling Human-Centered Systems Uncertainty Using Fuzzy Logics – A Review, in *The Ergonomics Open Journal*, Vol. 3, pg. 38-48. OTHERS
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19. Pereira, M., Azevedo S. G., Ferreira, J., Miguel R.M. and Pedroso V. (2010), "The relationship between apparel attributes and advertising on consumer buying behaviour", *International Journal of Management Cases*, Vol 11, No. 2; pp. 17-31. OTHERS
20. Silva, Daniel P.L., Martins R.F., Braz Fernandes F.M. (2010). Finite element modelling of Ni-Ti shape memory alloys, *Materials Science Forum, Advanced Materials Forum V*, Vols. 636-637, pp. 1112-1118. WoS. SCOPUS
21. Uliulic D., Gonçalves Coelho A., Slatineanu L., Coteata M. Electrical discharge machining of the curvilinear axis holes. *Nonconventional Technologies Review*, 2, 2010, 44-47. OTHERS

2011

1. Azevedo S. G., Carvalho H., and Cruz Machado V., "The influence of green practices on supply chain performance: A case study approach," *Transportation Research Part E: Logistics and Transportation Review*, Vol. 47, No. 6, pp. 850-871, 2011 SCOPUS, WoS
2. Azevedo S. G., Carvalho H., and Cruz-Machado V., "A proposal of LARG Supply Chain Management Practices and a Performance Measurement System," *International Journal of e-Education, e-Business, e-Management and e-Learning*, Vol. 1, No. 1, pp. 7-14, 2011 OTHERS
3. Azevedo S. G., Carvalho H., and Cruz-Machado V., "Agile Index: Automotive Supply Chain," *World Academy of Science, Engineering and Technology*, Vol. 79, pp. 784-790, 2011. www.waset.org/journals/waset/v55/v55-151.pdf SCOPUS
4. Azevedo S., Machado V.H., Barroso A.P., and Cruz Machado V., "Mapping and Its Importance to Supply Chains: A Case Study," *China-USA Business Review*, Vol. 10, No. 7, pp. 532-541, 2011 OTHERS
5. Azevedo S., Ferreira J. (2010) "Decision making for distribution centres location in CEP sector: A case study", *International Journal of Management Science and Engineering Management*, Vol. 5, Nº5, 341-352. OTHERS
6. Azevedo S. and Ferreira J. (2011) Deployment of RFID Technology in two Fashion Retailers, *UTCC International Journal of Business and Economics*, Vol. 1, Nº 2. pp:43-62. OTHERS
7. Cabeças J.M., Milho R.J. (2011). The efforts in the forearm during the use of anti-vibration gloves in simulated work tasks. *International Journal of Industrial Ergonomics*, 41, 289-297. SCOPUS, WoS

8. Carvalho H., Duarte S., and Machado V. C., "Lean, agile, resilient and green: divergencies and synergies," *International Journal of Lean Six Sigma*, Vol. 2, No. 2, pp. 151-179, 2011 OTHERS
9. Carvalho H., Azevedo S. G., Duarte S., and Cruz Machado V., "Green and lean paradigms influence on sustainable business development of manufacturing supply chains", *International Journal of Green Computing*, Vol. 2, No. 2, pp. 45-62, 2011 OTHERS
10. Castanheira I., Matos A.S., Coelho I., Gueifão S., Roe M., Calhau M. e Finglas P. (2011). "Six sigma scale as a quality criterion for aggregation of food property measures", *Journal of Food Composition and Analysis*, 24(8): 1153-1159. SCOPUS, WoS
11. Costa A. F., Puga Leal R., Nunes I.L. (2011) An exploratory study of the Work Ability Index (WAI) and its components in a group of computer workers, in *WORK: A Journal of Prevention, Assessment, & Rehabilitation*, Vol. 39, No 4, pg. 357-367 (DOI 10.3233/WOR-2011-1186 SCOPUS, WoS
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13. Costa N. R. P. Lourenço, Lourenço J., Pereira Z.L. 2011. "Multiresponse Optimization and Pareto Frontiers", *Quality and Reliability Engineering International* 28, 7: 701 - 712. SCOPUS, WoS
14. Cruz R., Ferreira J. and Azevedo S. (2011) A dynamic strategic portfolio analysis: Iberian seaports positioning, *South African Journal of Business Management*, Vol. 43, No. 1, pp.33-43. SCOPUS, WoS
15. Di Renzo S., Marques P. A., Ambrogio G., Umbrello D., Saraiva P. M. and Requeijo J. G. (2011). "White and Dark Layer Analysis Using Response Surface Methodology", *International Journal "Total Quality Management & Excellence"*, Vol. 39, N. 4, pp. 1-5. SCOPUS, WoS
16. Duarte S. and Cruz-Machado V., "Manufacturing paradigms in Supply Chain Management," *International Journal of Management Science and Engineering Management*, Vol.6, No. 5, pp. 328-342. 2011 OTHERS
17. Ferreira J., Azevedo S. and Cruz, R. (2011) SME Growth in the Service sector: A Taxonomy Combining Life Cycle and Resource-based Theories, *Service Industries Journal*, Vol. 31, No. 1-2, pp. 251-71(SCOPUS
18. Ferreira J., Azevedo S. and Ortiz, R. (2011) Contribution of Resource-Based View and Entrepreneurial Orientation on Small Firm Growth, *Revista Cuadernos de Gestión*, Volúmen 11, Número 1, pp. 95-116. SCOPUS, WoS
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22. Jacinto C., Guedes Soares C., Fialho, T. and Silva, A.S. (2011). The Recording, Investigation and Analysis of Accidents at Work (RIAAT) process. *Policy and Practice in Health and Safety*, Vol.9(1), pp. 57-77. OTHERS
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30. Pinto A., Nunes I. L., Ribeiro, Rita A. (2011) Método de Avaliação de Riscos para a Segurança Ocupacional na Indústria da Construção, in *Territorium*, 18, pg 55-72, (Editor: Associação Portuguesa de Riscos, Prevenção e Segurança) ISBN 0872-8941 OTHERS
31. Potârniche S., Slatineanu L., Coteata M., Coelho A., Gherman L., Grigoras I. Jet shape at abrasive jet machining. *Nonconventional Technologies Review*, 2, 2011, 59-64. OTHERS

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2. Azevedo S. G., Carvalho H., and Cruz-Machado V. "Proposal of a conceptual model to analyse the influence of LARG practices on manufacturing supply chain performance", *Journal of Modern Accounting & Auditing*, Vol. 8, No.2, 2012, ISSN: 1548-6583, 2012 OTHERS
3. Azevedo S. G., Duarte S., Carvalho H., and Cruz Machado V., "Influence of green and lean upstream supply chain management practices on business sustainability," *IEEE Transactions on Engineering Management*, Vol. 4, No 4, pp. 753-765, 2012 SCOPUS, WoS
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6. Cabral I., Grilo A.. and Cruz-Machado V. (2012) A decision-making model for Lean, Agile, Resilient and Green supply chain management. *International Journal of Production Research* Volume: 50 Issue: 17 Pages: 4830-4845 Published: 2012. SCOPUS, WoS
7. Carvalho H., Barroso A., Machado V., Azevedo S. and Cruz-Machado V. (2012). Supply chain redesign for resilience using simulation. *Computers & Industrial Engineering*, Vol.62, No.1, pp.329-341. SCOPUS, WoS
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11. Charrua-Santos F., Dias S., Matias J., Brójo F., Azevedo S., (2012) "Orders Preparation and Control on the Productive Process efficiency Preparation", *World Academy of Science, Engineering and Technology*, Vol. 79, pp. 177- 182, 2011. SCOPUS
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