



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

Publications List

(2008 to 2014)

Systems & Engineering Management – SEM

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, N^o1/3, 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, N^o 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*. CNCSIS: 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, n^o4, 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. and Pereira Z. L. (2008), "Integration of Engineering Process Control and Statistical Control in Pulp and Paper 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

2009

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, Politehniun 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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2. Azevedo S. and 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 Publishers, (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,
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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
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11. Grilo A., Jardim-Goncalves R. Building information modeling and collaborative working environments. Guest Editor of Special Issue in *Automation in Construction*, Volume: 19 Issue: 5 Pages: 521 Published: 2010 . 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.. SOA4BIM: Putting the building and construction industry in the Single European Information Space. *Automation in Construction* Volume: 19 Issue: 4 Pages: 388-397 Published: 2010 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. Mourao A., Slatineanu L., Gonçalves-Coelho A. The effect of wiper edge inserts on the specific cutting energy in face milling of aluminium alloys. International Journal of Modern Manufacturing Technologies, vol. II, 2, 2010, 71-76, OTHERS
17. 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
18. 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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20. 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
21. 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
22. 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

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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. and 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
12. Costa N. R. P., Lourenço J., Pereira Z.L. 2011. "Desirability function approach: A review and performance evaluation in adverse conditions", *Chemometrics and Intelligent Laboratory Systems* 107, 2: 234 - 244. doi: . SCOPUS, WoS
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
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20. Navas H. V. G., Braga D.F. N., Selection of a Stirrer Drive Configuration Using Pugh Decision Matrix Methodology, *Revista Científica*, Vol. 15, Nº 3, pp. 139-143, Julio-Septiembre 2011, ISSN 1665-0654, Escuela Superior de Ingeniería Mecánica y Eléctrica (ESIME), Instituto Politécnico Nacional (IPN), México. Latindex, Periódica, Redalyc. OTHERS
21. Navas H. V. G., Inovação Sistemática e Manutenção Lean, revista *Manutenção*, Associação Portuguesa de Manutenção Industrial (APMI), Nº 110-111, 3º e 4º Trimestres de 2011, pp. 64-66, OTHERS
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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24. Celeste J., Nunes I.L. (2011) Gestão Integrada: uma boa estratégia para todos? in Revista Organizações e Trabalho, No 33/34, oct 2011, pg. 51-58, (Editor: APSIOT – Associação Portuguesa dos Profissionais em Sociologia Industrial das Organizações e do Trabalho) ISSN 0871-4835 OTHERS
25. Coteata M., Slatineanu L., Besliu I. and Gonçalves-Coelho A.M. 2011. Electrode Tool Wear at the Electrochemical Discharge Microdrilling of a Spring Steel. Academic Journal of Manufacturing Engineering, ISSN 1583-7904, 9(4): 36-41, 2011. SCOPUS
26. Martins R.. F., Matos J. B., Branco C. M. (2011). On the Use of a New Ultrahigh-Strength Cr-Mn Austenitic Stainless Steel in Gas Turbine's Exhaust Systems, Procedia Engineering, vol. 10, pp. 2554-2559. SCOPUS, WoS
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28. Mourão A., Fradinho J. and Gonçalves-Coelho A.M. 2011. Solving Coupled Supply Chain Problems with Axiomatic Design and Mechanical Tolerances Design, International Journal of Modern Manufacturing Technologies, Vol. III, No. 2/2011, pp. 79-84. OTHERS
29. 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
30. Pinto A., Nunes I. L., Ribeiro, Rita A. (2011) Occupational risk assessment in construction industry – Overview and reflection, in Safety Science, Vol. 49, No 5, pg. 616-624 SCOPUS, WoS
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., Machado V., Barroso A. and Cruz-Machado V. (2012). Mapping and Its Importance to Supply Chains: A Case Study. China-USA Business Review, Vol.10, No.7, pp. 532-541, ISSN 1537 1506, David Publishing OTHERS
3. 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
4. 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
5. Azevedo S., Prata S., Ferreira A., and Cruz-Machado V., "Assessment of Supply Chain Agility in a Cloud Computing-based Platform", Scalable Computing: Practice and Experience, Vol. 13, No 4, 22-36. OTHERS
6. Cabeças J. M. (2012). A incomodidade física nas actividades de limpeza industrial: causas e recomendações. Revista Organizações e Trabalho 33/34, 83-94. (Editor: APSIOT – Associação Portuguesa dos Profissionais em Sociologia Industrial das Organizações e do Trabalho, ISSN 0871-4835) OTHERS
7. 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
8. 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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10. Carvalho H., Maleki M., and Cruz Machado V., "Links between supply chain disturbances and resilience strategies," *International Journal of Agile Systems and Management*, Vol. 5, No. 3, pp. 203–234, 2012. OTHERS
11. Carvalho H., Azevedo S. G., and Cruz Machado V., "Agile and resilient approaches to supply chain management: influence on performance and competitiveness," *Logistics Research*, Vol. 4, No. 1, pp. 49-62, 2012 OTHERS
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13. Costa A., Puga-Leal R., Zulema P. (2012), "An assessment of Recovsat utilization for different service typologies", *Quality Innovation Prosperity*, Vol.16, No 2, pp. 49-58 SCOPUS
14. Costa N., Lourenço J., Pereira Z.L. 2012. "Responses Modeling and Optimization Criteria Impact on the Optimization of Multiple Quality Characteristics", *Computers & Industrial Engineering* 62, 4: 972 - 935. SCOPUS, WoS
15. Cruz R., Ferreira J. and Azevedo S. (2012) " A strategic diagnostic tool applied to Iberian ports: A evolutionary perspective", *Transport Reviews*, Vol. 32, No.3, pp. 333-.349. DOI:10.1080/01441647.2011.647837 SCOPUS, WoS
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17. Dias N., Nunes I.L. (2012) Analysis and risk assessment of work-related musculoskeletal disorders in a physical rehabilitation unit, *Int. J. Human Factors and Ergonomics*, ISSN online: 2045-7812, ISSN print: 2045-7804, Vol. 1, No. 4, 318-332 OTHERS
18. Ferreira J., Azevedo S. and Raposo M. (2012). "Specialisation of regional clusters and innovative behaviour: A case study", *Competitiveness Review: An international business journal incorporating Journal of Global Competitiveness*, Vol. 22, No. 2, pp: 147-169. OTHERS
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