

PUBLICATIONS

1. Thesis and books (peer-reviewed and/or published by international editor of recognized merit)

44. **Borges, J. G.**, M. E. McDill, S. Toth, L.-O. Eriksson, M. Kurttila, and J. Kangas 2018 Exact and heuristic approaches to forest ecosystem management planning. In: V. Kint, F. Mohren, B Muys and R. Wulf (Eds) *Forest Management Planning for Multiple Ecosystem Services*. Springer
43. Reynolds. K. M, H. Vacik, M. Lexer, **J. G. Borges**, M. Lakicevic and G. Shao 2018 Decision support systems in forestry In: V. Kint, F. Mohren, B Muys and R. Wulf (Eds) *Forest Management Planning for Multiple Ecosystem Services*. Springer
42. Kangas, J., **J. G. Borges** and A. Kangas 2017 Multi-criteria analysis methods for choosing among alternative management plans. In: V. Kint, F. Mohren, B Muys and R. Wulf (Eds) *Forest Management Planning for Multiple Ecosystem Services*. Springer
41. Kangas, J., A. Kangas A, M. Kurttila and **J. G. Borges** 2017 Fundamentals of optimization and decision support methods in forest management. In: V. Kint, F. Mohren, B Muys and R. Wulf (Eds) *Forest Management Planning for Multiple Ecosystem Services*. Springer
40. Silva, G. L., P. Soares, S. Marques, M. I. Dias, M. M. Oliveira and **J. G. Borges** 2015. A Bayesian Modelling of Wildfires in Portugal. In: Bourguignon, J.-P., Jeltsch, R., Pinto, A. A. and Viana, M. (Eds) *Dynamics, Games and Science*, Springer CIM Series in Mathematical Sciences 1: 723-733 <http://www.springer.com/gp/book/9783319161174>
39. Oliveira, T., A. Oliveira, A. Carço, M. J. Batista, M. M. Oliveira and **J. G. Borges** 2015 Linear Regression on the Characterization of Elements of Natural Origin and Possible Implications in the Use of Ground. In T. E. Simos and C. Tsitouras (Eds) *Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014)*, September 22-28, Rhodes, Greece. AIP Conference Proceedings 1648: 840010-1-840010-4 <http://dx.doi.org/10.1063/1.4913050>
38. Ramos, M. R., M. M. Oliveira, J.G. Borges and M. E. McDill 2015. Statistical Models for Categorical Data: Brief Review for Applications in Ecology. In T. E. Simos and C. Tsitouras (Eds) *Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014)*, September 22-28, Rhodes, Greece. AIP Conference Proceedings 1648: 840015-1-840015-4 <http://dx.doi.org/10.1063/1.4913055>

37. Botequim, B., Ager, A., Pacheco, A., Oliveira, T., Claro, J., Fernandes, P. M., **Borges, J. G.** 2014. Addressing Trade-Offs among Fuel Management Scenarios through a dynamic and spatial integrated approach for enhanced decision—making in eucalyptus forests. In: D. X. Viegas (Ed.) *Advances in Forest Fire Research*, Coimbra University Press, Coimbra, Portugal, pp. 1623-1626. DOI: http://dx.doi.org/10.14195/978-989-26-0884-6_178
36. **Borges, J. G.**, L. Diaz-Balteiro, M. E. McDill and L. C. E. Rodriguez (Eds) 2014 *The management of industrial forest plantations. Theoretical foundations and applications*. Springer, Managing Forest Ecosystems Vol. 33, 543 p. DOI: <http://dx.doi.org/10.1007/978-94-017-8899-1>
35. Garcia-Gonzalo J., L. Ferreira and **J. G. Borges**. Addressing risk in forest management planning. In: **Borges, J. G.**, L. Diaz-Balteiro, M. E. McDill and L. C. E. Rodriguez (Eds) 2014 *The management of industrial forest plantations. Theoretical foundations and applications*. Springer, Managing Forest Ecosystems Vol. 33: 319-344. DOI: http://dx.doi.org/10.1007/978-94-017-8899-1_10
34. **Borges, J. G.**, A. Marques, L.-O. Eriksson and M. F. Marey. Integrating management planning levels with decision support systems. In: **Borges, J. G.**, L. Diaz-Balteiro, M. E. McDill and L. C. E. Rodriguez (Eds) 2014 *The management of industrial forest plantations. Theoretical foundations and applications*. Springer, Managing Forest Ecosystems Vol. 33: 297-318. DOI: http://dx.doi.org/10.1007/978-94-017-8899-1_9
33. **Borges, J. G.**, J. Garcia-Gonzalo, S. Marques, V. Valdebenito, M. E. McDill and A. O. Falcão. Strategic management scheduling. In: **Borges, J. G.**, L. Diaz-Balteiro, M. E. McDill and L. C. E. Rodriguez (Eds) 2014 *The management of industrial forest plantations. Theoretical foundations and applications*. Springer Springer, Managing Forest Ecosystems Vol. 33: 171-238. DOI: http://dx.doi.org/10.1007/978-94-017-8899-1_6
32. Diaz-Balteiro, L., C. Romero, L. C. E. Rodriguez, S. Nobre, and **J. G. Borges** Economics and management of industrial plantations In: **Borges, J. G.**, L. Diaz-Balteiro, M. E. McDill and L. C. E. Rodriguez (Eds) 2014 *The management of industrial forest plantations. Theoretical foundations and applications*. Springer Springer, Managing Forest Ecosystems Vol. 33: 121-170. DOI: http://dx.doi.org/10.1007/978-94-017-8899-1_5
31. Reynolds, K. M., **J. G. Borges** y D. Somma. Soporte espacial de decisiones para el Ordenamiento Territorial Rural. In: J. Paruelo, E. Jobaggy and P. Lateralra (Eds.) 2014. *Ordenamiento Territorial Rural*. FAO, INTA y Ministerio de Agricultura de Argentina (forthcoming)
30. **Borges, J. G.**, Nordström E.M., Garcia-Gonzalo, J., Hujala T. and Trasobares, A. (Eds.) 2014. *Computer-based tools for supporting forest management. The experience and the expertise world-wide*. Dept of Forest Resource Management, Swedish University of Agricultural Sciences. Umeå. Sweden, 503 p.

29. Eriksson, L. O. and **Borges, J. G.** 2014. Computerized decision support tools to address forest management planning problems: history and approach for assessing the state of art world-wide. In: **Borges, J.G.**, Nordström E.M., Garcia-Gonzalo, J., Hujala T. and Trasobares, A. (Eds.) *Computer-based tools for supporting forest management. The experience and the expertise world-wide.* Dept of Forest Resource Management, Swedish University of Agricultural Sciences. Umeå. Sweden, pp. 3-15
28. **Borges J. G.**, Nordström E-M, Hujala, T., Garcia-Gonzalo J., Trasobares, A. and Rodriguez, L. C. E. 2014. Addressing forest management planning problems with computerized tools. A synthesis of the experience world-wide. In: **Borges, J.G.**, Nordström E.M., Garcia-Gonzalo, J., Hujala T. and Trasobares, A. (Eds.) *Computer-based tools for supporting forest management. The experience and the expertise world-wide.* Dept of Forest Resource Management, Swedish University of Agricultural Sciences. Umeå. Sweden, pp. 484-503.
27. Marques, A., Garcia-Gonzalo, J., **Borges J. G.** 2014. Computer based tools for supporting forest management in Portugal In: **Borges, J.G.**, Nordström E.M., Garcia-Gonzalo, J., Hujala T. and Trasobares, A. (Eds.) *Computer-based tools for supporting forest management. The experience and the expertise world-wide.* Dept of Forest Resource Management, Swedish University of Agricultural Sciences. Umeå. Sweden, pp. 296-319.
26. Oliveira, M. M., I. Natário, S. Marques, J. Garcia-Gonzalo, B. Botequim, **J. G. Borges**, M. Tomé, J. M. Pereira, J. Tomé e C. Demétrio, 2013. Aplicações estatísticas em análise de catástrofes naturais. O caso da ocorrência e impacte dos incêndios florestais sobre a floresta em Portugal. In: F. P. Costa, J. T. Pinto e J. Buescu *Matemática do Planeta Terra*, ISTPress, Lisboa: 235-261
25. Palahi, M., D. Pettenella, **J. G. Borges**, F. Mounir, H. Daly, F. Lefebvre and E. Baskent 2012. *AGORA making the difference: towards a Mediterranean forest research area.* European Forest Institute Policy Brief 8, 16 p. (http://www.efi.int/files/attachments/publications/efi_policy_brief_8_net.pdf)
24. Marques, A. F., **Borges, J.G.**, Sousa, P. M., Fonseca, M., Gonçalves, J. and Oliveira, J. An Enterprise Architecture Approach for designing an Integrated Wood Supply Management System. In: Varajão, J., Cruz-Cunha and M. J., Trigo, T. 2012. *Organizational Integration of Enterprise Systems and Resources: Advancements and Applications: 1-22.* IGI Global. DOI: 10.4018/978-1-4666-1764-3.ch001
23. Marques, A. F., **Borges, J.G.**, Sousa, P., Fonseca, M., Garcia, R., Batista, G. 2010. Applying enterprise architecture to the design of the integrated forest products supply chain management system. In: Varajão J.E., M. M. Cruz-Cunha, G. D. Putnik and A. Trigo (Eds.) *Enterprise Information Systems International Conference CENTERIS2010*, Viana do Castelo, Portugal, October 20-22, 2010, Part II, Communications in Computer and Information Science 110, Part 1, 32-40, Springer-Verlag Berlin Heidelberg DOI: 10.1007/978-3-642-16419-4_4

22. Pereira, J. S., A. Correia, A. Correia e **J. G. Borges**. 2009. A Floresta. In Pereira, H. M., T. Domingos, L. Vicente e V. Proença (Eds), *Ecosystemas e Bem Estar Humano. Avaliação para Portugal do Millennium Ecosystem Assessment*, Editoria Presença, Lisboa: 235-258
21. Palahi, M., Y. Birot, **J. G. Borges**, F. Bravo, D. Pettenella, M. Sabir, H. Daly, Z. Shater, E. Baskent, V. Kazana, A. C. Mendes, F. Moreira, G. Scarascia-Mugnozza and A. K. von Lengefeld 2009. *A Mediterranean Forest Research Agenda – MFRA 2010-2020*. European Forest Institute Mediterranean Regional Office – EFIMED and Forest Based Sector Technology Platform, Barcelona, 31 p.
(http://www.efimed.efi.int/files/attachments/efimed/mediterranean_forest_research_agenda_2010-2020.pdf)
20. Borges, P., S. Marques, **J. G. Borges** e M. Tomé. 2009. Scenario analysis applied to cork and holm oak forest ecosystems in Southern Portugal, In: Palahi, M., Birot, Y., Bravo, F. and Gorris, E., (Eds) *Modelling, valuing and managing Mediterranean Forest ecosystem for non-timber goods and services*, EFI Proceedings 57: 49-56.
19. Hoganson, H. M., **J. G. Borges** and Y. Wei. 2008. Coordinating Management Decisions of Neighboring Stands with Dynamic Programming. In: K. von Gadow and T. Pukkala (Ed.) *Designing Green Landscapes*. Springer, Managing Forest Ecosystems Vol. 15: 187-214 DOI: <http://dx.doi.org/10.1007/978-1-4020-6759-4>
18. Reynolds, K.M., M. Twery, M. J. Lexer, H. Vacik, D. Ray, G. Shao and **Jose G. Borges**. 2008. Decision support systems in natural resource management. In: F. Burstein and C. Holsapple (Ed.) *Handbook on Decision Support Systems*. Springer, International Handbooks on Information Systems Series, Handbook on Decision Support System 2: 499-534.
17. **Borges, J. G.** 2007. New tools for designing landscapes: models and decision systems. In: M. Palahi, Y. Birot and M. Rois (Eds). *Scientific tools and research needs for multifunctional Mediterranean Forest Ecosystem Management*. EFI Proceedings Nº 56: 27-34.
16. **Borges, J. G.** e G. C. Borges. 2007. Impactes socioeconomicos da expansão do eucaliptal. In: A. M. Alves, J. S. Pereira e J. N. Silva (Ed.) *O eucaliptal em Portugal. Impactes ambientais e investigação científica*. ISAPress, Lisboa: 315-329.
15. Pereira, J. S., H. Martins and **J. G. Borges**. 2007. Forests for the 21st Century? In: M.S. Pereira (Ed.) *A Portrait of State-of-the-Art Research at the Technical University of Lisbon*. Springer, Dordrecht, The Netherlands, 385-400
14. **Borges, J. G.** e J. S. Uva. 2006. A prevenção e o combate a incêndios no âmbito do ordenamento e da gestão florestal. In: J. S. Pereira, J. M. C. Pereira, F. C. Rego, J. N. Silva e T. P. Silva (Eds). *Incêndios Florestais em Portugal: Caracterização, Impactes e Prevenção*. ISAPress, Lisboa: 313-335.

13. Reynolds, K.M., **J.G. Borges**, H. Vacik and M.J. Lexer. 2005. Information and communication technology in forest management and conservation. In: L. Hetemaki and S. Nilsson (Eds.) *Information Technology and the Forest Sector*. IUFRO World Series Volume 18. Vienna, Austria: International Union of Forest Research Organizations: 150-171.
12. Ribeiro, R. P., **J. G. Borges**, C. M. Pereira, P. M. Sousa and J. P. Lé. 2005. Designing an Integrated Forest Planning System for the forest industry: an application in Portugal. In: M. Bevers and T. M. Barrett (tech. comps.) *Systems Analysis in Forest Resources*. Proceedings of the 2003 Symposium, October 7-9, 2003, Stevenson, WA, USA. Gen. Tech. Rep. PNW-GTR-656. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.
11. Falcão, A. and **J. G. Borges**. 2003. Comparison of heuristics for spatially constrained natural resources management problems. In: G. J. Arthaud and T. M. Barrett (Eds.) *System Analysis in Forest Resources*. Springer, Managing Forest Ecosystems Vol. 7: 269-278.
10. **Borges, J. G.**, A. Falcão, C. Miragaia, P. Marques and M. Marques. 2003. A decision support system for forest resources management in Portugal. In: G. J. Arthaud and T. M. Barrett (Eds.) *System Analysis in Forest Resources*. Springer, Managing Forest Ecosystems Vol. 7: 155-164.
9. **Borges, J. G.**, H. M. Hoganson and A. O. Falcão. 2002. Heuristics in multi-objective forest management. In: T. Pukkala (Ed.) *Multi-objective Forest Planning*. Springer, Managing Forest Ecosystems Vol. 5: 119-152.
8. Tomé, M., **J. G. Borges** and A. O. Falcão. 2001. The use of management-oriented growth and yield models to assess and model forest wood sustainability. A case study for eucalyptus plantations in Portugal. In: J-M. Carnus, R. Dewar, D. Lusteau, M. Tomé and C. Orazio (Eds.) *Models for the Sustainable Management of Temperate Plantation Forests*. EFI Proceedings no. 41: 81-94.
7. **Borges, J. G.** 1999. Economia e Planeamento Florestal II. Programa, Conteúdo e Métodos de Ensino. Publicação para efeitos de provas de Agregação, ISA, 171 p.
6. **Borges, J. G.** 1999. O problema da dimensão máxima de área a corte raso. Restrições de adjacência. Sumário da lição síntese para efeitos de provas de Agregação, ISA, 4 p.
5. Hoganson, H. M., **J. G. Borges** and D. Bradley. 1998. Techniques for addressing spatial detail in forest planning. In: P. Bachmann, M. Koehl and R. Paivinen (Eds.) *Assessment of Biodiversity for Improved Forest Planning*. EFI Proceedings no. 18. Kluwer Academic Publishers Forestry Sciences, Vol. 51: 181-188.

4. **Borges, J. G.** 1994. *A modeling approach to spatial constraints in forest management*. Ph.D. Thesis, University of Minnesota, St.Paul, 117 p.
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2. **Borges, J. G.** 1987. *Uso múltiplo - produtos conjuntos*. Relatório para uma aula teórico-prática, ISA, Lisboa, 20 p.
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2. International journals (peer-reviewed)

63. Nordström, E.-M., M. Nieuwenhuis, E. Z. Başkent, P. Biber, K. Black, **J. G. Borges**, M. N. Bugalho, G. Corradini, E. Corrigan, L.-O. Eriksson, A. Felton, N. Forsell, G. Hengeveld, M. Hoogstra-Klein, U. Karahalil, I. Lodin, A. Korosuo, M. Lindbladh, A. Lundholm, M. Marto, M. Masiero, G. Mozgeris, D. Pettenella, W. Poschenrieder, R. Sedmak, J. Tucek and D. Zocatelli 2019 Forest decision support systems for analysis of ecosystem services provisioning at landscape scale under global climate and market change scenarios *European Journal of Forest Research* (in press) <https://doi.org/10.1007/s10342-019-01189-z>
62. Marques, S., V. A. Bushenkov, A. V. Lotov, M. Marto and J. G. Borges 2019 Bi-level participatory forest management planning supported by Pareto frontier visualization *Forest Science* (in press)
61. Garcia-Gonzalo, J. and **J. G. Borges** 2019 Models and tools for integrated forest management and forest policy analysis: An Editorial *Forest Policy and Economics* 103: 1-3 <https://doi.org/10.1016/j.forpol.2019.04.006>
60. Linkevičius, E., **J. G. Borges**, M. Doyle, H. Pülzl, E.-M. Nordström, H. Vacik, V. Brukas, P. Biber, M. Teder, P. Kaimre, M. Synek, J. Garcia-Gonzalo 2019 Linking forest policy issues and decision support tools in Europe *Forest Policy and Economics* 103: 4-16 <https://doi.org/10.1016/j.forpol.2018.05.014>
59. Nobre, S. R., **J. G. Borges**, L. Diaz-Balteiro, L. C. E. Rodriguez, H. C. von Glehn and M. J. Zakia 2019 A generalizable monitoring model to implement policies to promote forest restoration – A case study in São Paulo – Brazil. *Forest Policy and Economics* 103: 123-135 <https://doi.org/10.1016/j.forpol.2018.03.001>
58. Marto, M., K. M. Reynolds, J. G. Borges, V. A. Bushenkov and S. Marques 2018 Combining Decision Support Approaches for Optimizing the Selection of

Bundles of Ecosystem Services. *Forests* 2018, 9, 438;
<http://doi.org/10.3390/f9070438>

57. Yousefpour, R., C. Temperli, J. B. Jacobsen, B. J. Thorsen, H. Meilby, M. J. Lexer, M. Lindner, H. Bugmann, **J. G. Borges**, J. H. N. Palma, D. Ray, N. E. Zimmermann, S. Delzon, A. Kremer, K. Kramer, C. P. O. Reyer, P. Lasch-Born, J. Garcia-Gonzalo, and M. Hanewinkel. 2017. A framework for modeling adaptive forest management and decision making under climate change. *Ecology and Society* 22(4):40. <https://doi.org/10.5751/ES-09614-220440>
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55. Orazio, C., R. C. Montoya, M. Régolini, **J. G. Borges**, J. Garcia-Gonzalo, S. Barreiro, B. Botequim, S. Marques, R. Sedmák, R. Smrecek, Y. Brodrechtová, V. Brukas, G. Chirici, M. Marchetti, R. Moshhammer, P. Biber, E. Corrigan, L.-O. Eriksson, M. Favero, E. Galev, G. M. Hengeveld, M. Kavaliauskas, G. Mozgeris, R. Navrátil, M. Nieuwenhuis, I. Paligorov, D. Pettenella, A. Stanislovaitis, M. Tomé, R. Trubins, J. Tucek, M. Vizzarri, I. Wallin, H. Pretzsch and O. Sallnäs 2017 Decision Support Tools and Strategies to Simulate Forest Landscape Evolutions Integrating Forest Owner Behaviour: A Review from the Case Studies of the European Project, *INTEGRAL Sustainability* 2017, 9, 599 <https://doi.org/0.3390/su9040599>
54. Reyer, C. P. O., S. Bathgate, K. Blennow, **J. G. Borges**, H. Bugmann, S. Delzon, S. P. Faias, J. Garcia-Gonzalo, B. Gardiner, J. R. Gonzalez-Olabarria, C. Gracia, J. G. Hernández, S. Kellomäki, K. Kramer, M. J. Lexer, M. Lindner, E. M., M. Maroschek, B. Muys, B. Nicoll, M. Palahi, J. H. N. Palma, J. A. Paulo, H. Peltola, T. Pukkala, W. Rammer, D. Ray, S. Sabaté, M.-J. Schelhaas, R. Seidl, C. Temperli, M. Tomé, R. Yousefpour, N. E. Zimmermann, M. Hanewinkel 2017 Are forest disturbances amplifying or canceling out climate change-induced productivity changes in European forests? *Environmental Research Letters* 12(3) <https://doi.org/10.1088/1748-9326/aa5ef1>
53. Botequim B., M. Arias-Rodil, J. Garcia-Gonzalo, A. Silva, S. Marques, **J. G. Borges**, M. M. Oliveira, and M. Tomé 2017 Modelling post-fire mortality in pure and mixed forest stands in Portugal - A forest planning-oriented model. *Sustainability* 2017, 9, 390 (<http://dx.doi.org/10.3390/su9030390>)
52. Marques, S, M. Marto, V.A. Bushenkov, M. E. McDill and **J. G. Borges** 2017 Addressing Wildfire Risk in Forest Management Planning with Multiple Criteria Decision Making Methods. *Sustainability*, 2017, 9, 298, (<http://dx.doi.org/10.3390/su9020298>)
51. **Borges, J. G.**, S. Marques, J. Garcia-Gonzalo, A. U. Rahman, V.A. Bushenkov, M. Sottomayor, P. O. Carvalho and E.-M. Nordström 2017 A multiple criteria approach for negotiating ecosystem services supply targets and forest owners' programs. *Forest Science* 63: 49–61 <http://dx.doi.org/10.5849/FS-2016-035>

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44. Biber, P., **J. G. Borges**, R. Moshammer, S. Barreiro, B. Botequim, Y. Brodrechtová, V. Brukas, G. Chirici, R. Cordero-Debets, E. Corrigan, L. O. Eriksson, M. Favero, E. Galev, J. Garcia-Gonzalo, G. Hengeveld, M. Kavaliauskas, M. Marchetti, S. Marques, G. Mozgeris, R. Navrátil, M. Nieuwenhuis, C. Orazio, I. Paligorov, D. Pettenella, R. Sedmák, R. Smreček, A. Stanislovaitis, M. Tomé, R. Trubins, J. Tuček, M. Vizzarri, I. Wallin, H. Pretzsch and O. Sallnäs 2015. How Sensitive are Ecosystem Services in European Forest Landscapes to Silvicultural Treatment? *Forests* 6: 1666-1695. DOI: <http://dx.doi.org/10.3390/f6051666>
43. Pacheco, A. P., J. Claro, P. M. Fernandes, R. de Neufville, T. M. Oliveira, **J. G. Borges** and J. C. Rodrigues 2015. Cohesive fire management within an uncertain environment: A review of risk handling and decision support systems.

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SOFTWARE (resulting from research and aiming at the support of teaching of Forest Management and Economics classes as well as of outreach activities)

9. Co-conceptualization and supervision of the implementation of the Web-based SADfLOR Decision Support System, documented in Barreiro, S., J. Garcia-Gonzalo, J. G. Borges, M. Tomé and S. Marques 2013. SADfLOR Tutorial – A Web-based Forest and Natural Resources Decision Support System (Work in progress), FORCHANGE, ISA, Lisbon, 39 p.

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1. Participation in the conceptualization and implementation of software ‘Restrições espaciais e análise de decisão em áreas florestais’. Integrates the model developed by **Borges, J. G.**, H. M. Hoganson and D.W. Rose. 1999. Combining a decomposition strategy with dynamic programming to solve spatially constrained forest management scheduling problems. *Forest Science* 45: 201-212, (it was presented at the Habilitation exam)