Universitatea din Craiova
Facultatea de Automatică, Calculatoare și Electronică
Departamentul de Automatică și Electronică
Domeniul ştiinţific: Ingineria Sistemelor

LISTA PUBLICAȚIILOR

Prof. Dr. Ing. Daniela DANCIU

I. Teza de doctorat

Titlu: *Probleme calitative în dinamica sistemelor neuronale*
Instituție organizatoare: Universitatea din Craiova
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Coordonator științific: Prof. Vladimir Răsvan
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II: Teza de abilitare

Titlu: *Qualitative Analysis and Control of Nonlinear Systems. Computational Modeling and Stabilization of Distributed Parameter Systems (Analiza calitativă și controlul sistemelor neliniare. Modelare computațională și stabilizarea sistemelor cu parametri distribuiți)*
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III. Monografii și capitole de carte în edituri internaționale

1. **Daniela Danciu** (2021). Qualitative analysis and control of nonlinear systems. Computational modeling and stabilization of distributed parameter systems. Recent contributions. Book series: Control Engineering, Universitaria Publ. House, Craiova, ISBN: 978-606-14-1753-7.
2. **Danciu Daniela** (2006). *Systems with multiple equilibria. Applications to Neural Networks*, Book series: Control Engineering, Universitaria Publ. House, Craiova, ISBN: 978-973-742-555-3 (in Romanian).
3. **Danciu Daniela** (2010). *Neural Networks. Stability, Synchronisation, Time-delays*, Book series: Control Engineering, Universitaria Publ. House, Craiova, ISBN 973-742-234-1 (in Romanian).
4. **Danciu Daniela** (2021). *Qualitative analysis and control of nonlinear systems. Computational modeling and stabilization of distributed parameter systems. Recent contributions.* Book series: Control Engineering, Universitaria Publ. House, Craiova, ISBN: 978-606-14-1753-7 (in English).
5. **Danciu Daniela** (2022). Computational Modeling for One-Dimensional Distributed Parameter Systems. In: Auriol, J., Deutscher, J., Mazanti, G., Valmorbida, G. (eds) *Advances in Distributed Parameter Systems*. Book Series: *Advances in Delays and Dynamics*, Vol 14, Chapter 12. Springer,

Cham, pp 269–295, ISBN: 978-3-030-94765-1, eISBN: 978-3-030-94766-8. https://link.springer.com/chapter/10.1007/978-3-030-94766-8_12

6. Răsvan V., **Danciu Daniela**, Popescu D. (2019). On Some Neutral Functional Differential Equations Occurring in Synchronization, In Valmorbida, G., Seuret, A., Boussaada, I., Sipahi, R. (Eds.): *Delays and Interconnections: Methodology, Algorithms and Applications*, Series: Advances in Delays and Dynamics, Vol. 10, Chapter 2, pp. 19-32, Springer Cham, ISBN 978-3-030-11554-8, ISSN: 2197-117X, https://link.springer.com/chapter/10.1007/978-3-030-11554-8_2

7. **Danciu Daniela**, Răsvan V. (2014). Delays and Propagation: Control Liapunov Functionals and Computational Issues, In: A. Seuret, H. Özbay, C. Bonnet, H. Mounier (Eds.) *Low-Complexity Controllers for Time-Delay Systems*, Series: Advances in Delays and Dynamics, Vol. 2, Part. II, Chapter 10, Springer, pp. 141-154, ISBN 978-3-319-05575-6, https://link.springer.com/chapter/10.1007/978-3-319-05576-3_10

8. **Danciu Daniela** (2009). Dynamics of Neural Networks as Nonlinear Systems with Several Equilibria, In: Porto, P. A. B., Pazos, S. A., Buceta, W. B. (Eds.) *Advancing Artificial Intelligence Through Biological Process Applications*, Chapter 18, pp. 331-357, IGI Global, Hershey, S.U.A. ISBN 978-1-59904-996-0

9. **Danciu Daniela**, Răsvan V. (2009). Neural Networks and Equilibria, Synchronization, and Time Lags, In: J.R.R. Dopico, J. Dorado, A. Pazos (Eds.) *Encyclopedia of Articifial Intelligence*, Chapter 178, pp. 1219-1225, IGI Global, Hershey, S.U.A, ISBN 978-1-59904-849-9

IV. Articole în reviste indexate ISI WoS și/sau în alte baze de date internaționale

1. **Danciu Daniela**, Răsvan V. (2020). Controlling Co-generation: Conservation laws, Modeling and Lyapunov Synthesis, *International Journal of Control*, Vol. 93, Issue 2, pp. 336-345, DOI: 10.1080/00207179.2018.1514126, ISSN: 0020-7179 [ISI, WOS: 000513185600017]

2. **Danciu Daniela**, Răsvan V. Popescu D. (2019). Control of a Time Delay System Arising From Linearized Conservation Laws, *IEEE Access*, Vol. 7, Issue:1, pp. 48524-48542, ISSN: 2169-3536, [ISI, WOS:000466706400001]

3. **Danciu Daniela,** Popescu D., Bobașu E. (2018). Neural Networks-Based Computational Modeling of Bilinear Control Systems for Conservation Laws: Application to the Control of Cogeneration, *IEEE Transactions on Industry Applications*, Vol. 54, Issue 6, pp. 6498-6507, ISNN: 0093-9994 [ISI, WOS: 000447827700089]

4. **Danciu Daniela** (2015). A CNN-based approach for a class of non-standard hyperbolic partial differential equations modeling distributed parameters (nonlinear) control systems, *Neurocomputing*, ELSEVIER, Vol. 164, pp. 56-70, 21 September 2015, ISSN: 0925-2312. [ISI, WOS:00356987000006]

5. Răsvan V., **Danciu Daniela**, Popescu D. (2013). On absolute (robust) stability: slope restrictions and stability multipliers, *International Journal of Robust and Nonlinear Control*, John Wiley & Sons, Vol.23, No.1, pp. 77-103, 10 January 2013, Publ. online 23 October 2011, ISSN 1049-8923 [ISI, WOS:000312888500006]

6. Răsvan V., **Danciu Daniela**, Popescu D. (2009). Nonlinear and time delay systems for flight control, *Mathematical Reports*, Romanian Academy Publ. House, Vol. 11(61), No. 4, Oct. 2009, pp. 359-367, ISSN 2285-3898. [ISI, WOS:000275720800008]

7. **Danciu Daniela**, Răsvan V. (2005). Stability Results for Cellular Neural Networks with Time Delays, *Computational Intelligence and Bioinspired Systems, Proceedings*, Lectures Notes in Computer Science, Vol. 3512, pp. 366-373, Springer, ISSN 0302-9743 [ISI, WOS:000230384000045]

8. **Danciu Daniela**, Popescu D., Răsvan V. (2023). Water Hammer Stability for a Hydroelectric Plant with Local Nonlinear Hydraulic Losses, 2023 European Control Conference (ECC), June 13-16, 2023. Bucharest, Romania, eISBN: 978-3-907144-08-4, pp. 1-6, doi: 10.23919/ECC57647.2023.10178313. [ISI, WOS:001035589000198, IEEE Xplore]

9. **Danciu Daniela**, D. Popescu and V. Răsvan. (2022). "On the Stability Models for the Surge Tanks in Hydraulic Plants," 2022 23rd International Carpathian Control Conference (ICCC), 2022, pp. 208-214, doi: 10.1109/ICCC54292.2022.9805945, Publisher IEEE, Electronic ISBN: 978-1-6654-6636-3. [ISI Proc, WOS: 000925203600037, IEEE Xplore]

10. **Danciu Daniela**, D. Popescu and V. Răsvan. (2022). Surge Tank Stability under Distributed Parameters, 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), 2022, pp. 92-97, ISBN: 978-1-6654-6746-9, doi: 10.1109/ICSTCC55426.2022.9931795, Publisher: IEEE. [ISI Proc, WOS:000889980600017, IEEE Xplore].

11. **Danciu Daniela**, Popescu D., Răsvan V. (2021). On Dynamic Models for Water Hammer. Criticalities and Challenges, 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), pp. 491-497, ISBN: 978-1-6654-3055-5, ISSN: 2372-1618, doi: 10.1109/ICSTCC52150.2021.9607136. web [ISI Proc. WOS: 000859487900080, IEEE Xplore]

12. **Danciu Daniela**, Răsvan V. (2021). Oscillator Networks: Delays and Synchronization, *IFAC PapersOnLine*, vol. 54, issue 9, pp. 32–37, ELSEVIER, *24th International Symposium on Mathematical Theory of Networks and Systems* (MTNS 2020): Cambridge, UK, DOI: 10.1016/j.ifacol.2021.06.059, Available: https://doi.org/10.1016/j.ifacol.2021.06.059 [ISI, WOS:000680565100007, ScienceDirect]

13. **Danciu Daniela**, Popescu D., Răsvan V. (2020). Stability of Surge Tanks in the Hydroelectric Power Plants - Structures and Problems, 2020 24rd International Conference on System Theory, Control and Computing (ICSTCC), 8-10 Oct. 2020, pp. 398-403, ISSN: 2372-1618, doi: 10.1109/ICSTCC50638.2020.9259788 [ISI Proc., WOS:000646582900067, IEEE Xplore]

14. **Danciu Daniela**, Popescu D., Răsvan V. (2020). Stability and Control Problems in Hydropower Plants, 2020 21th International Carpathian Control Conference (ICCC), 27-29 October, 2020, High Tatras, Slovakia, 2020, pp. 1-5, doi: 10.1109/ICCC49264.2020.9257294, Electronic ISBN:978-1-7281-1951-9 [IEEE Xplore INSPEC Accession Number: 20194353]

15. **Danciu Daniela**, Răsvan V. (2020). Stability by the first approximation of a water hammer model, *IFAC PapersOnLine* vol. 53, no. 2 (2020), ISSN: 2405-8963, pp. 4339–4344, DOI: 10.1016/j.ifacol.2020.12.2490, *21th IFAC World Congress*, Berlin, Germany, July 11-14, 2020, [ISI, WOS:000652592500700, ScienceDirect]

16. **Danciu Daniela**, Popescu D., Răsvan V. (2019). Water Hammer Stability in a Hydroelectric Plant with Surge Tank and Throttling, *IFAC PapersOnLine*, ELSEVIER, Vol. 52, Issue: 18 Pages: 144-149, ISSN: 2405-8963, *15th IFAC Workshop on Time Delay Systems TDS 2019*, Sinaia, 9-11 Sept.2019 [ISI, WOS:000504412200026, ScienceDirect]

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Elsevier, *14th IFAC Workshop on Time Delay Systems TDS* 2018, Budapest, June28-July 1 [ISI, WOS: 000443033900020, ScienceDirect]

18. **Danciu Daniela**, Răsvan V. (2017). Neutral functional differential equations and systems of conservation laws, *IFAC PapersOnLine*, Vol. 50, Issue 1, pp. 13336-13341, *IFAC World Congress 2017, Toulouse, France, July 9-15, 2017* [ISI, WOS:000423965200214**,** ScienceDirect]

19. **Danciu Daniela**, Răsvan V. (2016). Delays. Nonlinearity. Synchronization, *IFAC PapersOnLine*, Volume 49, Issue 10, 2016, Pages 200-205, ISSN: 2405-8963, Elsevier, 13th IFAC Workshop on Time Delays systems (TDS). [ISI, WOS:000383463500035, ScienceDirect, Scopus]

20. **Danciu Daniela** (2017). Two Lessons on Recurrent Neural Networks. 1. Basic Features and Architectures, *Annals of the University of Craiova*, Series: Automation, Computers, Electronics and Mechatronics, Vol. 14 (41), No. 1, pp. 1-7. Universitaria Publ. House, Craiova, ISSN: 1841-0626 [GoogleScholar, INSPEC, IndexCopernicus]

21. Răsvan V., **Danciu Daniela** (2011). Theoretical background for PIO II analysis. *Scientific Bulletin of "Politehnica" University of Timisoara*, *Romania*, *Transactions on Automatic Control and Computer Science*, Vol. 56(70), No. 1, March 2011, pp. 5-10, "Politehnica" Publ. House, ISSN 1224-600X. [GoogleScholar, IndexCopernicus]

22. Răsvan V., **Danciu Daniela**, Popescu D. (2010). Some results on stability of systems containing bounded nonlinearities – a survey. *IFAC Proceedings Volumes*, Volume 43, Issue 14, September 2010, Pages 1385-1390 [ScienceDirect, ifac-papersonline.net]

23. Răsvan V., Popescu D., **Danciu Daniela** (2010). Global asymptotic stability for a class of nonlinear systems which are equivalent to neutral higher order Functional Differential equations, *IFAC Proceedings Volumes*, *Volume 43, Issue 2*, *2010*, *Pages 189-193,* [ScienceDirect, ifac-papersonline.net]

24. **Danciu Daniela** (2010). Absolute stability conditions for some scalar nonlinear time-delay systems with monotone increasing nonlinearity, *Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics*, 7(34), 2, 2010, pp. 7-12. [GoogleScholar, IndexCopernicus]

25. V. Răsvan, D. Popescu, **Danciu Daniela** (2010). Monotone and slope restricted nonlinearities – a PIO II case study, *Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics*, 7(34), 2, 2010, pp. 39-44. [GoogleScholar, IndexCopernicus]

26. V. Răsvan, D. Popescu, **Danciu Daniela** (2010). Slope restrictions. Multipliers. Stability inequalities, *Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics*, 7 (34), 1, 2010, pp. 61-65. [GoogleScholar, IndexCopernicus]

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28. **Danciu Daniela**, Ionete C. (2009). Synchronization problem for time-delay recurrent neural networks, *IFAC Proceedings Volumes*, Volume 42, Issue 14, 2009, Pages 426-430. [ScienceDirect, ifac-papersonline]

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32. Răsvan V., Popescu, D., **Danciu Daniela** (2007). On coupled oscillators with time delay, *Bulletin of the Polytechnic Institute of Iași, Ser. Automatic Control and Computer Science,* Vol. 53(57), No. 1-4, pp.7-18, ISSN 1220-2169. [Google Scholar]
33. **Danciu Daniela** (2005). Global exponential stability of Hopfield-type neural networks with time delays, *Annals of the University of Craiova*, *Series: Automation, Computers, Electronics and Mechatronics*, Vol. 2 (29), No. 1, pp. 12-16, ISSN 1841-0626. [GoogleScholar]
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35. **Danciu Daniela**, Răsvan V. (2004). On the Stability of the Cellular Neural Networks with Time-Lags, *CEAI-Control Engineering and Applied Informatics*, Vol. 6, No. 3, pp. 11-15, ISSN 1454-8658, (o primă versiune în *The Annals of "Dunărea de Jos" University of Galaţi*, Fascicle III, 2004, pp. 105-108, ISSN 1221-454X [Google Scholar]
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37. **Danciu Daniela** (2002). Qualitative Behaviour of the Time-Delay Hopfield Type Neural Network with Time Varying Stimulus, *Annals of the University of Craiova*, *Series: Electrical Engineering*, vol. 26, No. 1, pp. 72-82, ISSN 1223-530X. [GoogleScholar]
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39. **Danciu Daniela**, Răsvan V. (2001). Stability Criteria for Cellular Neural Networks, *Annals of "Dunărea de Jos" University of Galaţi*, Fascicle III, 2001, pp. 11-13, ISSN 1221-454X, Series: Electrotechnics, Electronics, Automatic Control, Informatics [Google Scholar].
40. **Danciu Daniela**, Răsvan V. (2000). On Popov-type Stability Criteria for Neural Networks, *Electronique Journal on Qualitative Theory of Differential Equations (ELECTRON J QUAL THEO*), Volume: 2000, page 10 p., electronic only, ISSN: 1417-3875. [Scopus, MatSciNet, Zentralblatt]

V. Lucrări publicate în volumele conferințelor științifice indexate ISI WoS și/sau în alte baze de date internaționale (selection)

1. **Danciu Daniela**, D. Popescu and V. Răsvan. (2022). Surge Tank Stability under Distributed Parameters, 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), pp. 92-97, ISBN: 978-1-6654-6746-9, doi: 10.1109/ICSTCC55426.2022.9931795, Publisher: IEEE. [IEEE Xplore]

2. **Danciu Daniela**, D. Popescu and V. Răsvan. (2022). On the Stability Models for the Surge Tanks in Hydraulic Plants, 2022 23rd International Carpathian Control Conference (ICCC), pp. 208-214, doi: 10.1109/ICCC54292.2022.9805945, INSPEC Accession Number: 21844375, Publisher IEEE, Electronic ISBN: 978-1-6654-6636-3. [IEEE Xplore]

3. **Danciu Daniela**, Popescu D., Răsvan V. (2020). Stability and Control Problems in Hydropower Plants, 2020 21th International Carpathian Control Conference (ICCC), High Tatras, Slovakia, 2020, pp. 1-5, doi: 10.1109/ICCC49264.2020.9257294, eISBN:978-1-7281-1951-9 [IEEE Xplore]

4. **Danciu Daniela**, Popescu D., Răsvan V. (2021). On Dynamic Models for Water Hammer. Criticalities and Challenges, *2021 25th International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 491-497, ISBN: 978-1-6654-3055-5, ISSN: 2372-1618, Publisher: IEEE, doi: 10.1109/ICSTCC52150.2021.9607136. [ISI, WOS: 000859487900080. IEEE Xplore]

5. **Danciu Daniela**, Popescu D., Răsvan V. (2020). Stability of Surge Tanks in the Hydroelectric Power Plants - Structures and Problems, *2020 24rd International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 398-403, ISSN: 2372-1618, Publisher: IEEE, doi: 10.1109/ICSTCC50638.2020.9259788 [ISI, WOS:000646582900067, IEEEXplore]

6. **Danciu Daniela**, Stîngă F. (2019). Low-Dimension Robust Computational Algorithm for a Linear Distributed Parameter Water Hammer Model, *2019 IEEE 23 International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 586 – 591, DOI: 10.1109/ICSTCC.2019.8885430, Electronic ISBN: 978-1-7281-0699-1, Publisher: IEEE. [ISI, WOS:000590181100099, IEEE Xplore]

7. **Danciu Daniela**, Popescu D., Răsvan V. (2019). Stability conditions in a water hammer model involving two delays, *2019 23 IEEE International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 31 – 36, DOI: 10.1109/ICSTCC.2019.8886018, eISBN: 978-1-7281-0699-1, Publisher: IEEE. [ISI, WOS:000590181100006, IEEE Xplore]

8. Stîngă F., **Danciu Daniela** (2019). A Disturbance Observer-Based Control of Drilling Vibrations, Proc. *20th IEEE International Carpathian Control Conference ICCC 2019,* 26-29 May 2019, Krakow-Wieliczka, *Polonia,* pp. 833-838, Publisher**:** IEEE. [ISI, WOS: 000490570500156]

9. **Danciu Daniela**, Boussaada I., Stîngă F. (2018). Computational modeling and oscillations damping of axial vibrations in a drilling system, *Proc. 2018 IEEE International Conference on Systems Theory, Control and Computing*, Sinaia, Romania, pp. 105-110, ISBN 978-1-5386-4445-4, Publisher: IEEE [ISI, WOS: 000465109800017, IEEE Xplore]

10. Răsvan V., **Danciu Daniela**, Popescu D. (2018). Qualitative properties of a model of coupled drilling oscillations, *Proc. 2018 IEEE International Conference on Systems Theory, Control and Computing*, Sinaia, Romania, pp. 99-104, ISBN 978-1-5386-4445-4, Publisher: IEEE [ISI, WOS: 000465109800016, IEEE Xplore]

11. **Danciu Daniela** (2017). Feedback Control of a Nonlinear Propagation System: Numerical Modeling and Implementation, *Proc. of 21th IEEE International Conference on Systems Theory, Control and Computing*, Sinaia, Romania, pp. 429-434, ISBN 978-1-5386-3842-2 [ISI, WOS: 000427419900069, IEEE Xplore]

12. Răsvan V., **Danciu Daniela,** Popescu D. (2017). Time delay and wave propagation in controlling systems of conservation laws, *Proc. of 21th IEEE International Conference on Systems Theory, Control and Computing*, Sinaia, Romania, pp. 424-428, ISBN 978-1-5386-3842-2. [ISI, WOS: 000427419900068, IEEE Xplore]

13. Răsvan V., **Danciu Daniela**, Popescu D. (2017). On Huygens synchronization. Application to Van der Pol oscillators with distributed couplings, *Proc. 18th IEEE International Carpathian Control Conference ICCC 2017*, pp. 521 – 526, Sinaia, Romania, ISBN: 978-1-4799-7369-9 [ISI, WOS: 000426954400097, IEEE Xplore, INSPEC]

14. **Danciu Daniela**, Răsvan V. (2017). On Designing New Structures with Emergent Computing Properties, *Proc. 14th International Symposium on Neural Networks ISNN 2017*, *Advances in Neural Networks*, Part I, LNCS 10261, pp. 51-59, Sapporo, Japan, June 2017, Springer Cham, ISBN 978-3-319-59072-1. [ISI, WOS: 000439963900007, SpringerLink]

15. **Danciu Daniela** (2016). Computational and analog modeling of parabolic transport equations using Cellular Neural Networks, *Proc. of 20th IEEE International Conference on Systems Theory, Control and Computing ICSTCC* 2016, ISBN 978-1-5090-2720-0, pp. 681-686, Sinaia, Romania. [ISI, WOS:000391609900115, IEEE Xplore]

16. Răsvan V., Popescu D., **Danciu Daniela** (2016). Controller synthesis for a system of conservation laws, In: *Proc. of 20th IEEE International Conference on Systems Theory, Control and Computing ICSTCC*, ISBN 978-1-5090-2720-0, pp. 744–748, Sinaia, Romania. [ISI, WOS:000391609900126, IEEE Xplore]

17. Răsvan V., Bobașu E., **Danciu Daniela**, Popescu D. (2016). Control and stabilization of a linearized system of conservation laws, *Proc. 17th IEEE International Carpathian Control Conference ICCC*, pp. 618 - 623, Tatranska Lomnica, Slovakia. [ISI, WOS:000389829000115, IEEE Xplore]

18. **Danciu Daniela**, Răsvan V. (2015). On Structures with Emergent Computing Properties. A Connectionist versus Control Engineering Approach, *Proc. 13th Int. Work Conf. on Artificial Neural Networks IWANN*, Part I, Lectures Notes in Computer Science, Vol. 9094, pp. 415–429, Springer, ISBN 978-3-319-19257-4. [ISI, WOS:000363763800035, SpringerLink]

19. **Danciu Daniela**, Popescu D., Bobașu E. (2015). Computational issues based on neural networks for a class of systems of conservation laws, *Proc. 16th IEEE International Carpathian Control Conference ICCC*, ISBN: 978-1-4799-7369-9, Szilvasvarad, Hungary. [ISI, WOS:000380488000020, IEEE Xplore]

20. Bobașu E., **Danciu Daniela**, Popescu D., Răsvan V. (2015). On the dynamics of oilwell drillstrings with asynchronous motor drive, *Proc. 16th IEEE International Carpathian Control Conference ICCC*, pp. 41–45, ISBN: 978-1-4799-7369-9, Szilvasvarad, Hungary [ISI, WOS:000380488000008, IEEE Xplore]

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Control, Automation and Robotics ICINCO 2014, vol 1, ISBN: 978-989-758-039-0, pp. 508-518, September 2014, Vienna, Austria. [IEEE Xplore, INSPEC, ACM, DBLP, SciTePress Digital Library]

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