

Relja Vulcanović's Publications
October 20, 2024

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NUMERICAL ANALYSIS

1. D. Herceg & R. Vulcanović (1981). Some finite-difference schemes for a singular perturbation problem on a non-uniform mesh, *Univ. u Novom Sadu, Zb. Rad. Prirod.-Mat. Fak., Ser. Mat.* 11, 117–134.
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5. R. Vulcanović (1983). On a numerical solution of a type of singularly perturbed boundary value problem by using a special discretization mesh, *Univ. u Novom Sadu, Zb. Rad. Prirod.-Mat. Fak., Ser. Mat.* 13, 187–201.
6. R. Vulcanović (1984). Mesh construction for numerical solution of a type of singular perturbation problems, *Proc. Conference on Numerical Methods and Approximation Theory* (G. V. Milovanović, ed.), University of Niš, 137–142.
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9. R. Vulcanović, D. Herceg, & N. Petrović (1986). On the extrapolation for a singularly perturbed boundary value problem, *Computing* 36, 69–79.
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11. R. Vulcanović (1986). A second order uniform method for singular perturbation problems without turning points, *Proc. V. Conference on Applied Mathematics* (Z. Bohte, ed.), University of Ljubljana, 183–194.
12. R. Vulcanović (1987). Non-equidistant generalizations of the Gushchin-Shchennikov scheme, *Z. Angew. Math. Mech.* 67, 625–632.
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14. R. Vulcanović (1988). On a numerical solution of a power layer problem, *Proc. III. Conference on Numerical Methods and Approximation Theory* (G. V. Milovanović, ed.), University of Niš, 423–431.
15. R. Vulcanović (1988). Higher order monotone schemes for a nonlinear singular perturbation problem, *Proc. GAMM Annual Congress, Schtuttgart, Z. Angew. Math. Mech.* 68, T428–T430.
16. R. Vulcanović (1988). On numerical solution of some quasilinear turning point problems, *Proc. BAIL V.* (Guo Ben-yu, J.J.H. Miller & Shi Zhong-ci, eds.), Boole Press, Dublin, 368–373.

17. R. Vulanović (1989). On numerical solution of a turning point problem, *Univ. u Novom Sadu, Zb. Rad. Prirod.-Mat. Fak., Ser. Mat.* 19(1), 11–24.
18. R. Vulanović, D. Herceg, & N. Petrović (1989). A numerical solution of the singular perturbation problem arising from a weakly coupled system, *Univ. u Novom Sadu, Zb. Rad. Prirod.-Mat. Fak., Ser. Mat.* 19(1), 25–32.
19. R. Vulanović (1989). Mesh generation methods for numerical solution of quasilinear singular perturbation problems, *Univ. u Novom Sadu, Zb. Rad. Prirod.-Mat. Fak., Ser. Mat.* 19(2), 171–193.
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21. R. Vulanović (1989). A uniform numerical method for quasilinear singular perturbation problems without turning points, *Computing* 41, 97–106.
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23. R. Vulanović (1989). Quasilinear singular perturbation problems and the uniform L_1 -convergence, *Proc. GAMM Annual Congress, Z. Angew. Math. Mech.* 69, T130–T132.
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Technical Reports

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2. R. Vulanović (2015). Piecewise equidistant meshes for quasilinear turning point problems: Technical report, arXiv:1504.04645 [math.NA].

MATHEMATICAL LINGUISTICS

1. R. Vulanović (1989). An analytic model of regularity and ambiguity of simple sentences, *Linguistic Analysis* 19, 176–201.
2. R. Vulanović (1991). On measuring grammar efficiency and redundancy, *Linguistic Analysis* 21, 201–211.
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19. R. Vulanović & B. Miller (2010). Grammar efficiency of parts-of-speech systems, *Glottology* 3(2), 65–80.
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32. R. Vulcanović (2022). Efficiency of grammars for natural languages, *Efficiency in Complex Systems. Springer Proceedings in Complexity* (G.Y. Georgiev & M. Shokrollahi-Far, eds.) Springer, Cham. DOI: 10.1007/978-3-030-69288-9_7

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MISCELLANEOUS PUBLICATIONS

Textbooks, manuals, mathematics-education articles, encyclopedia entries

1. D. Herceg & R. Vulcanović (1989). *Numerical Analysis: Theory, Examples, Programs* (in Serbian), VŠOR, Novi Sad, pp. 390. (second edition 1994).
2. R. Vulcanović (1991). Introduction to Text Preparation by the LaTeX System (in Serbian), Institute of Mathematics, Novi Sad, pp. 75.
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