

M. S. Filipkovska (Filipkovskaya)

LIST OF PUBLICATIONS

The papers

1. Filipkovska M.S. (2018). *Lagrange stability of semilinear differential-algebraic equations and application to nonlinear electrical circuits*, Journal of Mathematical Physics, Analysis, Geometry, Vol. 14, No. 2, 169–196, doi:[10.15407/mag14.02.169](https://doi.org/10.15407/mag14.02.169).
2. Filipkovska M.S. (2018). *Lagrange stability and instability of nonregular semilinear differential-algebraic equations and applications*, Ukrain. Mat. Zh. [Ukrainian Mathematical Journal], Vol. 70, No. 6, 823–847, <http://umj.imath.kiev.ua/article/?lang=en&article=11273> [Russian].
3. Filipkovska M.S., Kotlyarov V.P., Melamedova E.A. (2017). *Maxwell-Bloch Equations without Spectral Broadening: gauge equivalence, transformation operators and matrix Riemann-Hilbert problems*, Journal of Mathematical Physics, Analysis, Geometry, Vol. 13, No. 2, 119–153, doi:[10.15407/mag13.02.119](https://doi.org/10.15407/mag13.02.119).
4. Filipkovska M.S. (2015). *Lagrange stability and numerical method for solving semilinear descriptor equations*. Visn. Kharkiv. Nats. Univ. Mat. Model. Inform. Tekh. Avt. Syst. Upr. [Bull. of V. Karazin Kharkiv National University. Series Math. Model. Inform. Tech. Automat. Control Syst.], Vol. 26, No. 1156, 152–167, http://nbuv.gov.ua/UJRN/VKhIMAM_2015_1156_26_17 [Russian].
5. Filipkovskaya M. (2015). *Global solvability of singular semilinear differential equations and applications to nonlinear radio engineering*, Challenges of modern technology, Vol. 6, No. 1, 3–13.
6. Filipkovskaya M.S. (2014). *The global solvability of the overdetermined singular system of differential-algebraic equations and applications in radiotechnics*, Radioelectronics & Informatics, No. 1(64), 7–16 [Russian].
7. Filipkovskaya M.S. (2014). *Global solvability of the underdetermined singular system of differential-algebraic equations*, Proceedings of Voronezh State University, Ser.: Physics. Mathematics, No. 3, 168–181, <http://www.vestnik.vsu.ru/pdf/physmath/2014/03/2014-03-15.pdf> [Russian].
8. Rutkas A.G., Filipkovskaya M.S. (2013). *Global solvability of the differential-algebraic equations of nonlinear electric circuits*, Zh. Obchysl. Prykl. Mat. [Journal of Computational and Applied Mathematics], No. 4, 120–131, http://nbuv.gov.ua/UJRN/jopm_2013_4_17 [Russian].
9. Rutkas A.G., Filipkovskaya M.S. (2013). *Continuation of solutions of one class of differential-algebraic equations*, Zh. Obchysl. Prykl. Mat. [Journal of Computational and Applied Mathematics], No. 1, 135–145, http://nbuv.gov.ua/UJRN/jopm_2013_1_17 [Russian].

10. Filipkovskaya M.S. (2012). *Continuation of solutions of semilinear differential-algebraic equations and applications in nonlinear radiotechnics*, Visn. Kharkiv. Nats. Univ. Mat. Model. Inform. Tekh. Avt. Syst. Upr. [Bull. of V. Karazin Kharkiv National University. Series Math. Model. Inform. Tech. Automat. Control Syst.], Vol. 19, No. 1015, 306–319 [Russian].