

## Papers in SIAM

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**MR4275498** Ashcraft, Cleve; Buttari, Alfredo; Mary, Theo Block low-rank matrices with shared bases: potential and limitations of the BLR2 format. *SIAM J. Matrix Anal. Appl.* 42 (2021), no. 2, 990–1010. 65F05 (65G50)

**MR4267497** Yousefnezhad, Mohsen; Kao, Chiu-Yen; Mohammadi, Seyyed Abbas Optimal chemotherapy for brain tumor growth in a reaction-diffusion model. *SIAM J. Appl. Math.* 81 (2021), no. 3, 1077–1097. 35K57 (35Q92 49M05 49M41 92C42)

**MR4254988** Khazayel, Bahareh; Farajzadeh, Ali; Günther, Christian; Tammer, Christiane On the intrinsic core of convex cones in real linear spaces. *SIAM J. Optim.* 31 (2021), no. 2, 1276–1298. 46A40 (06F20 90C25 90C29)

**MR4214367** Mahmoodi Darian, Hossein Investigation of C++ variadic templates for numerical methods and finite difference schemes. *SIAM J. Sci. Comput.* 43 (2021), no. 1, C89–C125. 65M06 (65-04 65Y10)

**MR4199737** Aghamiry, Hossein S.; Gholami, Ali; Operto, Stéphane Complex-valued imaging with total variation regularization: an application to full-waveform inversion in visco-acoustic media. *SIAM J. Imaging Sci.* 14 (2021), no. 1, 58–91. (Reviewer: Muoi Quy Pham) 49M41 (35R30 49M37 65F22 90C26 94A08)

**MR4199247** Alishahi, Meysam; Meunier, Frédéric Topological bounds for graph representations over any field. *SIAM J. Discrete Math.* 35 (2021), no. 1, 91–104. (Reviewer: Maruti M. Shikare) 05C62 (05B35)

**MR4194325** Mirzaei, Davoud The direct radial basis function partition of unity (D-RBF-PU) method for solving PDEs. *SIAM J. Sci. Comput.* 43 (2021), no. 1, A54–A83. (Reviewer: Bülent Karasözen) 65N35 (65D12)  
3 Citations

**MR4186548** Ebrahimi, Javad; Straszak, Damian; Vishnoi, Nisheeth Subdeterminant maximization via nonconvex relaxations and anti-concentration. *SIAM J. Comput.* 49 (2020), no. 6, 1249–1270. 68W25 (68Q87)

**MR4171583** Frommer, Andreas; Hashemi, Behnam Computing enclosures for the matrix exponential. *SIAM J. Matrix Anal. Appl.* 41 (2020), no. 4, 1674–1703. (Reviewer: Petko Petkov) 65F60 (65G20)  
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**MR4169260** Vahid Dastgerdi, Maryam; Foroush Bastani, Ali Solving parametric fractional differential equations arising from the rough Heston model using quasi-linearization and spectral collocation. *SIAM J. Financial Math.* 11 (2020), no. 4, 1063–1097. 91G30 (34A08 65L60 91G20 91G60)  
1 Citation

**MR4127961** Akhavan, Naghmeh; Yorke, James A. Population collapse in elite-dominated societies: a differential equations model without differential equations. *SIAM J. Appl. Dyn. Syst.* 19 (2020), no. 3, 1736–1757. (Reviewer: D. M. G. Comissiong) 91D10 (34A26 34C11 37B25 92D25)

**MR4062794** Gerbner, Dániel; Methuku, Abhishek; Omid, Gholamreza; Vizer, Máté Ramsey problems for Berge hypergraphs. *SIAM J. Discrete Math.* 34 (2020), no. 1, 351–369. (Reviewer: Ta Sheng Tan) 05D10 (05C65)

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**MR4048014** Kovács, Mihály; Larsson, Stig; Saedpanah, Fardin Mittag-Leffler Euler integrator for a stochastic fractional order equation with additive noise. *SIAM J. Numer. Anal.* 58 (2020), no. 1, 66–85. (Reviewer: Ezekiel O. Ayoola) 65L05 (34A08 45D05 45K05 60H15 60H35)

**MR4041717** Abam, Mohammad Ali; de Berg, Mark; Seraji, Mohammad Javad Rezaei Geodesic spanners for points on a polyhedral terrain. *SIAM J. Comput.* 48 (2019), no. 6, 1796–1810. (Reviewer: Antoine Vigneron) 52B55 (05C48 65D15)

**MR3968240** Gazor, Majid; Sadri, Nasrin Bifurcation controller designs for the generalized cusp plants of Bogdanov-Takens singularity with an application to ship control. *SIAM J. Control Optim.* 57 (2019), no. 3, 2122–2151. (Reviewer: Stanisław Śędziwy) 34H20 (34C20 34K18 58E25)

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**MR3850297** Javadi, Ramin; Omid, Gholamreza On a question of Erdős and Faudree on the size Ramsey numbers. *SIAM J. Discrete Math.* 32 (2018), no. 3, 2217–2228. (Reviewer: Jerrold W. Grossman) 05C55 (05D10)

**MR3840900** Khodayari-Samghabadi, Samaneh; Momeni-Masuleh, Sayed Hodjatollah Implicit-modal discontinuous Galerkin scheme for two-phase flow with discontinuous capillary pressure. *SIAM J. Sci. Comput.* 40 (2018), no. 4, B1131–B1160. (Reviewer: Cornel Marius Murea) 65M60 (35Q35 65M12 76S05 76T99)

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**MR3805848** Beik, Fatemeh Panjeh Ali; Benzi, Michele Iterative methods for double saddle point systems. *SIAM J. Matrix Anal. Appl.* 39 (2018), no. 2, 902–921. (Reviewer: Bruno Carpentieri) 65F10 (65F08 65F50)

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**MR3799063** Luc, Dinh The; Soleimani-damaneh, Majid; Zamani, Moslem Semi-differentiability of the marginal mapping in vector optimization. *SIAM J. Optim.* 28 (2018), no. 2, 1255–1281. (Reviewer: Albert N. Voronin) 90C29 (49J52 90C30 90C31)

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**MR3771405** Hosseini, S.; Huang, W.; Yousefpour, R. Line search algorithms for locally Lipschitz functions on Riemannian manifolds. *SIAM J. Optim.* 28 (2018), no. 1, 596–619. (Reviewer: Jean-Noël Corvellec) 90C30 (58C05 65K05)

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**MR3749386** Mirzaei, Davoud A Petrov-Galerkin kernel approximation on the sphere. *SIAM J. Numer. Anal.* 56 (2018), no. 1, 274–295. (Reviewer: Erell Jamelot) 65N30 (41A17 41A30 65N12 65N15)

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**MR3691219** Amestoy, Patrick; Buttari, Alfredo; L'Excellent, Jean-Yves; Mary, Theo On the complexity of the block low-rank multifrontal factorization. *SIAM J. Sci. Comput.* 39 (2017), no. 4, A1710–A1740. (Reviewer: Ninoslav Truhar) 65F50 (15A06 15A23 65F05 65N22 65Y20)

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**MR3681361** Omidi, G. R.; Shahsiah, M. Diagonal Ramsey numbers of loose cycles in uniform hypergraphs. *SIAM J. Discrete Math.* 31 (2017), no. 3, 1634–1669. (Reviewer: Ta Sheng Tan) 05C55 (05C65 05D10)

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**MR3621270** Renault, Rosemary A.; Vatankhah, Saeed; Ardestani, Vahid E. Hybrid and iteratively reweighted regularization by unbiased predictive risk and weighted GCV for projected systems. *SIAM J. Sci. Comput.* 39 (2017), no. 2, B221–B243. (Reviewer: Silvia Gazzola) 65F22 (65F10 65F35 65R32)

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**MR3595884** Beigi, Salman; Etesami, Omid; Gohari, Amin Deterministic randomness extraction from generalized and distributed Santha-Vazirani sources. *SIAM J. Comput.* 46 (2017), no. 1, 1–36. (Reviewer: Mark R. Jerrum) 68Q10 (60C05 68Q30 68Q87 68W20)

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**MR3516862** Pauwels, Edouard; Henrion, Didier; Lasserre, Jean-Bernard Linear conic optimization for inverse optimal control. *SIAM J. Control Optim.* 54 (2016), no. 3, 1798–1825. (Reviewer: Gerd Wachsmuth) 49M29 (90C22 93C10)

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**MR3493108** Gazor, Majid; Sadri, Nasrin Bifurcation control and universal unfolding for Hopf-zero singularities with leading solenoidal terms. *SIAM J. Appl. Dyn. Syst.* 15 (2016), no. 2, 870–903. (Reviewer: Jaume Giné) 34H20 (34A34 34C20 34C23 37G05)

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**MR3187674** Kanzi, Nader Constraint qualifications in semi-infinite systems and their applications in nonsmooth semi-infinite problems with mixed constraints. *SIAM J. Optim.* 24 (2014), no. 2, 559–572. (Reviewer: Chong Li) 90C34 (49J52 90C46)

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