

- Dehmer, M, Emmert-Streib, F, Mowshowitz, A, Ilić, A, Chen, Z, Yu, G, Feng, L, Ghorbani, M, Varmuza, K & Tao, J 2020, 'Relations and bounds for the zeros of graph polynomials using vertex orbits', *Applied Mathematics and Computation*, vol. 380, 125239. <https://doi.org/10.1016/j.amc.2020.125239>
- Ghorbani, M, Dehmer, M, Maimani, H, Maddah, S, Roozbayani, M & Emmert-Streib, F 2020, 'The watching system as a generalization of identifying code', *Applied Mathematics and Computation*, vol. 380, 125302. <https://doi.org/10.1016/j.amc.2020.125302>
- Yin, Q, Wang, Z, Xia, C, Dehmer, M, Emmert-Streib, F & Jin, Z 2020, 'A novel epidemic model considering demographics and intercity commuting on complex dynamical networks', *Applied Mathematics and Computation*, vol. 386, 125517. <https://doi.org/10.1016/j.amc.2020.125517>
- Wan, P, Tu, J, Dehmer, M, Zhang, S & Emmert-Streib, F 2019, 'Graph entropy based on the number of spanning forests of c-cyclic graphs', *Applied Mathematics and Computation*, vol. 363, 124616. <https://doi.org/10.1016/j.amc.2019.124616>
- Dehmer, M, Chen, Z, Shi, Y, Zhang, Y, Tripathi, S, Ghorbani, M, Mowshowitz, A & Emmert-Streib, F 2019, 'On efficient network similarity measures', *Applied Mathematics and Computation*, vol. 362, 124521. <https://doi.org/10.1016/j.amc.2019.06.035>
- Hella, L, Kuusisto, A, Meier, A & Vollmer, H 2019, 'Satisfiability of modal inclusion logic: Lax and strict semantics', *ACM TRANSACTIONS ON COMPUTATIONAL LOGIC*, vol. 21, no. 1, 7. <https://doi.org/10.1145/3356043>
- Mesaros, A, Diment, A, Elizalde, B, Heittola, T, Vincent, E, Raj, B & Virtanen, T 2019, 'Sound Event Detection in the DCASE 2017 Challenge', *IEEE/ACM Transactions on Audio Speech and Language Processing*, vol. 27, no. 6, pp. 992-1006. <https://doi.org/10.1109/TASLP.2019.2907016>
- Guzmán Adán, A, Orelma, H & Sommen, F 2019, 'Hypermonogenic solutions and plane waves of the Dirac operator in  $\mathbb{R}^p \times \mathbb{R}^q$ ', *Applied Mathematics and Computation*, vol. 346, pp. 1-14. <https://doi.org/10.1016/j.amc.2018.09.058>
- Levämäki, H, Tian, L-Y, Vitos, L & Ropo, M 2019, 'An automated algorithm for reliable equation of state fitting of magnetic systems', *Computational Materials Science*, vol. 156, pp. 121-128. <https://doi.org/10.1016/j.commatsci.2018.09.026>
- Stockrahm, A, Lahtinen, V, Kangas, JJJ & Kotiuga, PR 2019, 'Cuts for 3-D magnetic scalar potentials: Visualizing unintuitive surfaces arising from trivial knots', *Computers and Mathematics with Applications*. <https://doi.org/10.1016/j.camwa.2019.05.023>
- Batty, C, Paunonen, L & Seifert, D 2019, 'Optimal energy decay for the wave-heat system on a rectangular domain', *SIAM JOURNAL ON MATHEMATICAL ANALYSIS*, vol. 51, no. 2, pp. 808-819. <https://doi.org/10.1137/18M1195796>
- Kuva, J, Voutilainen, M & Mattila, K 2019, 'Modeling mass transfer in fracture flows with the time domain-random walk method', *COMPUTATIONAL GEOSCIENCES*. <https://doi.org/10.1007/s10596-019-09852-5>
- Martins, L, Neeli-Venkata, R, Oliveira, SMD, Häkkinen, A, Ribeiro, AS & Fonseca, JM 2018, 'SCIP: a single-cell image processor toolbox', *Bioinformatics*, vol. 34, no. 24, pp. 4318-4320. <https://doi.org/10.1093/bioinformatics/bty505>
- Kartasalo, K, Latonen, L, Vihinen, J, Visakorpi, T, Nykter, M & Ruusuvoori, P 2018, 'Comparative analysis of tissue reconstruction algorithms for 3D histology', *Bioinformatics*, vol. 34, no. 17, pp. 3013-3021. <https://doi.org/10.1093/bioinformatics/bty210>
- Carabias Orti, JJ, Nikunen, J, Virtanen, T & Vera-Candeas, P 2018, 'Multichannel Blind Sound Source Separation using Spatial Covariance Model with Level and Time Differences and Non-Negative Matrix Factorization', *IEEE/ACM Transactions on Audio Speech and Language Processing*, vol. 26, no. 9, pp. 1512-1527. <https://doi.org/10.1109/TASLP.2018.2830105>

- Eriksson, SL, Orelma, H & Vieira, N 2018, 'Hypermonogenic Functions of Two Vector Variables', *Complex Analysis and Operator Theory*, vol. 12, no. 2, pp. 555–570. <https://doi.org/10.1007/s11785-017-0728-7>
- Vuojamo, V & Eriksson, S-L 2017, 'Integral kernels for k-hypermonogenic functions', *Complex Variables and Elliptic Equations*, vol. 62, no. 9, pp. 1–12. <https://doi.org/10.1080/17476933.2016.1250402>
- Orelma, H & Vieira, N 2017, 'Homogeneous  $(\alpha, k)$ -Polynomial Solutions of the Fractional Riesz System in Hyperbolic Space', *Complex Analysis and Operator Theory*, vol. 11, no. 5, pp. 1253–1267. <https://doi.org/10.1007/s11785-017-0666-4>
- Stupnikov, A, Tripathi, S, De Matos Simoes, R, McArt, D, Salto-Tellez, M, Glazko, G, Dehmer, M & Emmert-Streib, F 2016, 'SamExploreR: Exploring reproducibility and robustness of RNA-seq results based on SAM files', *Bioinformatics*, vol. 32, no. 21, pp. 3345–3347. <https://doi.org/10.1093/bioinformatics/btw475>
- Luukko, PJJ, Helske, J & Räsänen, E 2016, 'Introducing libeemd: a program package for performing the ensemble empirical mode decomposition', *Computational Statistics*, vol. 31, no. 2, pp. 545–557. <https://doi.org/10.1007/s00180-015-0603-9>
- Häkkinen, A & Ribeiro, AS 2016, 'Characterizing rate limiting steps in transcription from RNA production times in live cells', *Bioinformatics*, vol. 32, no. 9, pp. 1346–1352. <https://doi.org/10.1093/bioinformatics/btv744>
- Eriksson, S-L & Orelma, H 2016, 'On k-Hypermonogenic Functions and Their Mean Value Properties', *Complex Analysis and Operator Theory*, vol. 10, no. 2, pp. 311–325. <https://doi.org/10.1007/s11785-015-0445-z>
- Dumitrescu, B, Şicleru, BC & Avram, F 2016, 'Modeling probability densities with sums of exponentials via polynomial approximation', *Journal of Computational and Applied Mathematics*, vol. 292, pp. 513–525. <https://doi.org/10.1016/j.cam.2015.07.032>
- Rodrigues, PC, Monteiro, A & Lourenço, VM 2015, 'A robust AMMI model for the analysis of genotype-by-environment data', *Bioinformatics*, vol. 32, no. 1, pp. 58–66. <https://doi.org/10.1093/bioinformatics/btv533>
- Dehmer, M, Emmert-Streib, F & Shi, Y 2015, 'Graph distance measures based on topological indices revisited', *Applied Mathematics and Computation*, vol. 266, pp. 623–633. <https://doi.org/10.1016/j.amc.2015.05.072>
- Häkkinen, A & Ribeiro, AS 2015, 'Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data', *Bioinformatics*, vol. 31, no. 1, pp. 69–75. <https://doi.org/10.1093/bioinformatics/btu592>
- Karilainen, T, Cramariuc, O, Kuisma, M, Tappura, K & Hukka, TI 2015, 'Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads', *Journal of Computational Chemistry*, vol. 36, no. 9, pp. 612–621. <https://doi.org/10.1002/jcc.23834>
- Chen, Z, Dehmer, M, Emmert-Streib, F & Shi, Y 2014, 'Entropy bounds for dendrimers', *Applied Mathematics and Computation*, vol. 242, pp. 462–472. <https://doi.org/10.1016/j.amc.2014.05.105>
- Tripathi, S, Dehmer, M & Emmert-Streib, F 2014, 'NetBioV: An R package for visualizing large network data in biology and medicine', *Bioinformatics*, vol. 30, no. 19, pp. 2834–2836. <https://doi.org/10.1093/bioinformatics/btu384>
- Rahmatallah, Y, Emmert-Streib, F & Glazko, G 2014, 'Gene Sets Net Correlations Analysis (GSNCA): A multivariate differential coexpression test for gene sets', *Bioinformatics*, vol. 30, no. 3, pp. 360–368. <https://doi.org/10.1093/bioinformatics/btt687>

Enkavi, G, Li, J, Wen, P, Thangapandian, S, Moradi, M, Jiang, T, Han, W & Tajkhorshid, E 2014, 'A microscopic view of the mechanisms of active transport across the cellular membrane', *Annual Reports in Computational Chemistry*, vol. 10, pp. 77-125. <https://doi.org/10.1016/B978-0-444-63378-1.00004-5>

Wang, J & Ray, AK 2014, 'A full-potential linearized augmented plane wave study of the interaction of CO<sub>2</sub> with  $\alpha$ -Pu (020) surface nanolayers', *Journal of Computational and Theoretical Nanoscience*, vol. 11, no. 7, pp. 1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

Airiskallio, E, Nurmi, E, Väyrynen, IJ, Kokko, K, Ropo, M, Punkkinen, MPJ, Johansson, B & Vitos, L 2014, 'Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels: First-principles and Ising model study', *Computational Materials Science*, vol. 92, pp. 135-140. <https://doi.org/10.1016/j.commatsci.2014.05.036>

Dehmer, M, Grabner, M, Mowshowitz, A & Emmert-Streib, F 2013, 'An efficient heuristic approach to detecting graph isomorphism based on combinations of highly discriminating invariants', *Advances in Computational Mathematics*, vol. 39, no. 2, pp. 311-325. <https://doi.org/10.1007/s10444-012-9281-0>

Ma, L & Ray, AK 2013, 'Growth behavior and magnetic properties of spherical uranium oxide nanoclusters', *Journal of Computational and Theoretical Nanoscience*, vol. 10, no. 2, pp. 334-340. <https://doi.org/10.1166/jctn.2013.2701>

Ma, L, Wang, J, Hao, Y & Wang, G 2013, 'Density functional theory study of FePd<sub>n</sub> (n = 2-14) clusters and interactions with small molecules', *Computational Materials Science*, vol. 68, pp. 166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>

Rahmatallah, Y, Emmert-Streib, F & Glazko, G 2012, 'Gene set analysis for self-contained tests: Complex null and specific alternative hypotheses', *Bioinformatics*, vol. 28, no. 23, pp. 3073-3080. <https://doi.org/10.1093/bioinformatics/bts579>

Emmert-Streib, F 2012, 'Universal construction mechanism for networks from one-dimensional symbol sequences', *Applied Mathematics and Computation*, vol. 219, no. 3, pp. 1020-1030. <https://doi.org/10.1016/j.amc.2012.07.006>

Emmert-Streib, F 2012, 'Evolutionary dynamics of the spatial Prisoner's Dilemma with self-inhibition', *Applied Mathematics and Computation*, vol. 218, no. 11, pp. 6482-6488. <https://doi.org/10.1016/j.amc.2011.12.018>

Yu, G, Zhang, B, Bova, GS, Xu, J, Shih, IM & Wang, Y 2011, 'BACOM: In silico detection of genomic deletion types and correction of normal cell contamination in copy number data', *Bioinformatics*, vol. 27, no. 11, pp. 1473-1480. <https://doi.org/10.1093/bioinformatics/btr183>

Altay, G & Emmert-Streib, F 2010, 'Revealing differences in gene network inference algorithms on the network level by ensemble methods', *Bioinformatics*, vol. 26, no. 14, pp. 1738-1744. <https://doi.org/10.1093/bioinformatics/btq259>

Glazko, GV & Emmert-Streib, F 2009, 'Unite and conquer: Univariate and multivariate approaches for finding differentially expressed gene sets', *Bioinformatics*, vol. 25, no. 18, pp. 2348-2354. <https://doi.org/10.1093/bioinformatics/btp406>

Dehmer, M, Emmert-Streib, F & Gesell, T 2008, 'A comparative analysis of multidimensional features of objects resembling sets of graphs', *Applied Mathematics and Computation*, vol. 196, no. 1, pp. 221-235. <https://doi.org/10.1016/j.amc.2007.05.058>

Dehmer, M & Emmert-Streib, F 2007, 'Structural similarity of directed universal hierarchical graphs: A low computational complexity approach', *Applied Mathematics and Computation*, vol. 194, no. 1, pp. 7-20. <https://doi.org/10.1016/j.amc.2007.04.006>

Emmert-Streib, F & Dehmer, M 2007, 'Information theoretic measures of UHG graphs with low computational complexity', *Applied Mathematics and Computation*, vol. 190, no. 2, pp. 1783-1794. <https://doi.org/10.1016/j.amc.2007.02.095>

- Dehmer, M & Emmert-Streib, F 2007, 'Comparing large graphs efficiently by margins of feature vectors', *Applied Mathematics and Computation*, vol. 188, no. 2, pp. 1699-1710. <https://doi.org/10.1016/j.amc.2006.11.185>
- Emmert-Streib, F & Dehmer, M 2007, 'Topological mappings between graphs, trees and generalized trees', *Applied Mathematics and Computation*, vol. 186, no. 2, pp. 1326-1333. <https://doi.org/10.1016/j.amc.2006.07.162>
- Dehmer, M, Emmert-Streib, F & Kilian, J 2006, 'A similarity measure for graphs with low computational complexity', *Applied Mathematics and Computation*, vol. 182, no. 1, pp. 447-459. <https://doi.org/10.1016/j.amc.2006.04.006>
- Emmert-Streib, F 2006, 'Algorithmic computation of knot polynomials of secondary structure elements of proteins', *Journal of Computational Biology*, vol. 13, no. 8, pp. 1503-1512. <https://doi.org/10.1089/cmb.2006.13.1503>
- Uusitalo, MA, Peltonen, J & Ryhänen, T 2011, 'Machine learning: How it can help nanocomputing', *Journal of Computational and Theoretical Nanoscience*, vol. 8, no. 8, pp. 1347-1363. <https://doi.org/10.1166/jctn.2011.1821>
- Ylinen, A, Mäkinen, J & Kouhia, R 2016, Two models for hydraulic cylinders in flexible multibody simulations. in *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction*. Computational Methods in Applied Sciences, vol. 41, Springer, pp. 463-493. [https://doi.org/10.1007/978-3-319-27996-1\\_17](https://doi.org/10.1007/978-3-319-27996-1_17)
- Gusrialdi, A, Xu, Y, Qu, Z & Simaan, MA 2020, Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources. in *European Control Conference 2020, ECC 2020*. IEEE, pp. 1533-1539, European Control Conference, Saint Petersburg, Russian Federation, 12/05/20.
- Singh, AK, Ahonen, A, Ghabcheloo, R & Mueller, A 2020, Introducing Multi-Convexity in Path Constrained Trajectory Optimization for Mobile Manipulators. in *European Control Conference 2020, ECC 2020*. IEEE, pp. 1178-1185, European Control Conference, Saint Petersburg, Russian Federation, 12/05/20.
- Yang, D, Qian, Y, Cai, D, Yan, S, Kämäräinen, J-K & Chen, K 2019, Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation. in *9th International Conference on Information Science and Technology, ICIST 2019*. IEEE, pp. 65-70, IEEE International Conference on Information Science and Technology, Hulunbuir, China, 2/08/19. <https://doi.org/10.1109/ICIST.2019.8836907>
- Ma, S, Ukkonen, L, Sydänheimo, L & Björninen, T 2019, Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development. in *2018 International Applied Computational Electromagnetics Society (ACES) Symposium: 29 July-1 Aug. 2018, China*. IEEE, International Applied Computational Electromagnetics Society Symposium, 1/01/00. <https://doi.org/10.23919/ACCESS.2018.8669363>
- Kuang, Y, Ma, S, Ukkonen, L, Virkki, J & Björninen, T 2019, Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems. in *2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018*. IEEE, International Applied Computational Electromagnetics Society Symposium in China, Beijing, China, 29/07/18. <https://doi.org/10.23919/ACCESS.2018.8669314>
- Dong, G, Shen, Y, He, H, Virkki, J & Hu, S 2017, Chipless graphene tag and dual-CP reader for Internet of Things. in *2017 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2017*. IEEE, International Applied Computational Electromagnetics Society Symposium in China, 1/01/00.
- Belahcen, A, Kouhia, R & Fonteyn, K 2011, The different levels of magneto-mechanical coupling in energy conversion machines and devices. in *Proceedings of the 4th International Conference on Computational Methods for Coupled Problems in Science and Engineering, COUPLED PROBLEMS 2011*. pp. 472-483, 4th International Conference on Computational Methods for Coupled Problems in Science and Engineering, COUPLED PROBLEMS 2011, Kos, Greece, 20/06/11.

Valkealahti, S & Manninen, M 1993, 'Melting of copper clusters', *Computational Materials Science*, vol. 1, no. 2, pp. 123-134. [https://doi.org/10.1016/0927-0256\(93\)90003-6](https://doi.org/10.1016/0927-0256(93)90003-6)