

- 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*. 380. <https://doi.org/10.1016/j.amc.2020.125239>
- 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*. 386. <https://doi.org/10.1016/j.amc.2020.125517>
- 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.
- 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.
- 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*. 380. <https://doi.org/10.1016/j.amc.2020.125302>
- 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*. 363. <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*. 362. <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*. 21(1). <https://doi.org/10.1145/3356043>
- 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. <https://doi.org/10.1109/ICIST.2019.8836907>
- 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*. 27(6):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  $\mathbb{R}^D \times \mathbb{R}^Q$ . *Applied Mathematics and Computation*. 346:1-14. <https://doi.org/10.1016/j.amc.2018.09.058>
- 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. <https://doi.org/10.23919/ACCESS.2018.8669314>
- 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. <https://doi.org/10.23919/ACCESS.2018.8669363>
- 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*. 156:121-128. <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>

- 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>
- Batty C, Paunonen L, Seifert D. 2019. Optimal energy decay for the wave-heat system on a rectangular domain. *SIAM JOURNAL ON MATHEMATICAL ANALYSIS*. 51(2):808-819. <https://doi.org/10.1137/18M1195796>
- Martins L, Neeli-Venkata R, Oliveira SMD, Häkkinen A, Ribeiro AS, Fonseca JM. 2018. SCIP: a single-cell image processor toolbox. *Bioinformatics*. 34(24):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*. 34(17):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*. 26(9):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*. 12(2):555-570. <https://doi.org/10.1007/s11785-017-0728-7>
- 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.
- Orelma H, Vieira N. 2017. Homogeneous  $(\alpha, k)$ -Polynomial Solutions of the Fractional Riesz System in Hyperbolic Space. *Complex Analysis and Operator Theory*. 11(5):1253-1267. <https://doi.org/10.1007/s11785-017-0666-4>
- Vuojamo V, Eriksson S-L. 2017. Integral kernels for  $k$ -hypermonogenic functions. *Complex Variables and Elliptic Equations*. 62(9):1-12. <https://doi.org/10.1080/17476933.2016.1250402>
- 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*. 32(21):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*. 31(2):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*. 32(9):1346-1352. <https://doi.org/10.1093/bioinformatics/btv744>
- Dumitrescu B, Şicleru BC, Avram F. 2016. Modeling probability densities with sums of exponentials via polynomial approximation. *Journal of Computational and Applied Mathematics*. 292:513-525. <https://doi.org/10.1016/j.cam.2015.07.032>
- Eriksson S-L, Orelma H. 2016. On  $k$ -Hypermonogenic Functions and Their Mean Value Properties. *Complex Analysis and Operator Theory*. 10(2):311-325. <https://doi.org/10.1007/s11785-015-0445-z>
- 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*. Springer. pp. 463-493. (Computational Methods in Applied Sciences). [https://doi.org/10.1007/978-3-319-27996-1\\_17](https://doi.org/10.1007/978-3-319-27996-1_17)
- Rodrigues PC, Monteiro A, Lourenço VM. 2015. A robust AMMI model for the analysis of genotype-by-environment data. *Bioinformatics*. 32(1):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*. 266:623-633. <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*. 31(1):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*. 36(9):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*. 242:462-472. <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*. 30(19):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*. 30(3):360-368. <https://doi.org/10.1093/bioinformatics/btt687>
- 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*. 11(7):1710-1717. <https://doi.org/10.1166/jctn.2014.3555>
- 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*. 10:77-125. <https://doi.org/10.1016/B978-0-444-63378-1.00004-5>
- 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*. 92:135-140. <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*. 39(2):311-325. <https://doi.org/10.1007/s10444-012-9281-0>
- 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*. 68:166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>
- Ma L, Ray AK. 2013. Growth behavior and magnetic properties of spherical uranium oxide nanoclusters. *Journal of Computational and Theoretical Nanoscience*. 10(2):334-340. <https://doi.org/10.1166/jctn.2013.2701>
- Rahmatallah Y, Emmert-Streib F, Glazko G. 2012. Gene set analysis for self-contained tests: Complex null and specific alternative hypotheses. *Bioinformatics*. 28(23):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*. 219(3):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*. 218(11):6482-6488. <https://doi.org/10.1016/j.amc.2011.12.018>
- Uusitalo MA, Peltonen J, Ryhänen T. 2011. Machine learning: How it can help nanocomputing. *Journal of Computational and Theoretical Nanoscience*. 8(8):1347-1363. <https://doi.org/10.1166/jctn.2011.1821>

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*. 27(11):1473-1480. <https://doi.org/10.1093/bioinformatics/btr183>

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.

Altay G, Emmert-Streib F. 2010. Revealing differences in gene network inference algorithms on the network level by ensemble methods. *Bioinformatics*. 26(14):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*. 25(18):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*. 196(1):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*. 194(1):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*. 190(2):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*. 188(2):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*. 186(2):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*. 182(1):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*. 13(8):1503-1512. <https://doi.org/10.1089/cmb.2006.13.1503>

Valkealahti S, Manninen M. 1993. Melting of copper clusters. *Computational Materials Science*. 1(2):123-134. [https://doi.org/10.1016/0927-0256\(93\)90003-6](https://doi.org/10.1016/0927-0256(93)90003-6)