

- Dehmer M, Emmert-Streib F, Mowshowitz A, Ilić A, Chen Z, Yu G et al. **Relations and bounds for the zeros of graph polynomials using vertex orbits**. Applied Mathematics and Computation. 2020 Sep 1;380. 125239. <https://doi.org/10.1016/j.amc.2020.125239>
- Yin Q, Wang Z, Xia C, Dehmer M, Emmert-Streib F, Jin Z. **A novel epidemic model considering demographics and intercity commuting on complex dynamical networks**. Applied Mathematics and Computation. 2020;386. 125517. <https://doi.org/10.1016/j.amc.2020.125517>
- Singh AK, Ahonen A, Ghabcheloo R, Mueller A. **Introducing Multi-Convexity in Path Constrained Trajectory Optimization for Mobile Manipulators**. In European Control Conference 2020, ECC 2020. IEEE. 2020. p. 1178-1185
- Gusrialdi A, Xu Y, Qu Z, Simaan MA. **Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources**. In European Control Conference 2020, ECC 2020. IEEE. 2020. p. 1533-1539
- Ghorbani M, Dehmer M, Maimani H, Maddah S, Roozbayani M, Emmert-Streib F. **The watching system as a generalization of identifying code**. Applied Mathematics and Computation. 2020;380. 125302. <https://doi.org/10.1016/j.amc.2020.125302>
- Wan P, Tu J, Dehmer M, Zhang S, Emmert-Streib F. **Graph entropy based on the number of spanning forests of c-cyclic graphs**. Applied Mathematics and Computation. 2019 Dec 15;363. 124616. <https://doi.org/10.1016/j.amc.2019.124616>
- Dehmer M, Chen Z, Shi Y, Zhang Y, Tripathi S, Ghorbani M et al. **On efficient network similarity measures**. Applied Mathematics and Computation. 2019 Dec 1;362. 124521. <https://doi.org/10.1016/j.amc.2019.06.035>
- Hella L, Kuusisto A, Meier A, Vollmer H. **Satisfiability of modal inclusion logic: Lax and strict semantics**. ACM TRANSACTIONS ON COMPUTATIONAL LOGIC. 2019 Oct 1;21(1). 7. <https://doi.org/10.1145/3356043>
- Yang D, Qian Y, Cai D, Yan S, Kämäräinen J-K, Chen K. **Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation**. In 9th International Conference on Information Science and Technology, ICIST 2019. IEEE. 2019. p. 65-70. <https://doi.org/10.1109/ICIST.2019.8836907>
- Mesaros A, Diment A, Elizalde B, Heittola T, Vincent E, Raj B et al. **Sound Event Detection in the DCASE 2017 Challenge**. IEEE/ACM Transactions on Audio Speech and Language Processing. 2019 Jun 1;27(6):992-1006. <https://doi.org/10.1109/TASLP.2019.2907016>
- Guzmán Adán A, Orelma H, Sommen F. **Hypermonogenic solutions and plane waves of the Dirac operator in  $\mathbb{R}^p \times \mathbb{R}^q$** . Applied Mathematics and Computation. 2019 Apr 1;346:1-14. <https://doi.org/10.1016/j.amc.2018.09.058>
- Kuang Y, Ma S, Ukkonen L, Virkki J, Björninen T. **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. 2019 <https://doi.org/10.23919/ACCESS.2018.8669314>
- Ma S, Ukkonen L, Sydänheimo L, Björninen T. **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. 2019 <https://doi.org/10.23919/ACCESS.2018.8669363>
- Levämäki H, Tian L-Y, Vitos L, Ropo M. **An automated algorithm for reliable equation of state fitting of magnetic systems**. Computational Materials Science. 2019;156:121-128. <https://doi.org/10.1016/j.commatsci.2018.09.026>
- Stockrahm A, Lahtinen V, Kangas JJJ, Kotiuga PR. **Cuts for 3-D magnetic scalar potentials: Visualizing unintuitive surfaces arising from trivial knots**. Computers and Mathematics with Applications. 2019. <https://doi.org/10.1016/j.camwa.2019.05.023>

- Kuva J, Voutilainen M, Mattila K. **Modeling mass transfer in fracture flows with the time domain-random walk method.** COMPUTATIONAL GEOSCIENCES. 2019. <https://doi.org/10.1007/s10596-019-09852-5>
- Batty C, Paunonen L, Seifert D. **Optimal energy decay for the wave-heat system on a rectangular domain.** SIAM JOURNAL ON MATHEMATICAL ANALYSIS. 2019;51(2):808-819. <https://doi.org/10.1137/18M1195796>
- Martins L, Neeli-Venkata R, Oliveira SMD, Häkkinen A, Ribeiro AS, Fonseca JM. **SCIP: a single-cell image processor toolbox.** Bioinformatics. 2018 Dec 15;34(24):4318-4320. <https://doi.org/10.1093/bioinformatics/bty505>
- Kartasalo K, Latonen L, Vihinen J, Visakorpi T, Nykter M, Ruusuvoori P. **Comparative analysis of tissue reconstruction algorithms for 3D histology.** Bioinformatics. 2018 Sep 1;34(17):3013-3021. <https://doi.org/10.1093/bioinformatics/bty210>
- Carabias Orti JJ, Nikunen J, Virtanen T, Vera-Candeas P. **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. 2018 Sep;26(9):1512-1527. <https://doi.org/10.1109/TASLP.2018.2830105>
- Eriksson SL, Orelma H, Vieira N. **Hypermonogenic Functions of Two Vector Variables.** Complex Analysis and Operator Theory. 2018;12(2):555-570. <https://doi.org/10.1007/s11785-017-0728-7>
- Dong G, Shen Y, He H, Virkki J, Hu S. **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. 2017
- Orelma H, Vieira N. **Homogeneous  $(\alpha, k)$ -Polynomial Solutions of the Fractional Riesz System in Hyperbolic Space.** Complex Analysis and Operator Theory. 2017;11(5):1253-1267. <https://doi.org/10.1007/s11785-017-0666-4>
- Vuojamo V, Eriksson S-L. **Integral kernels for k-hypermonogenic functions.** Complex Variables and Elliptic Equations. 2017;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 et al. **SamExploreR: Exploring reproducibility and robustness of RNA-seq results based on SAM files.** Bioinformatics. 2016 Nov 1;32(21):3345-3347. <https://doi.org/10.1093/bioinformatics/btw475>
- Luukko PJJ, Helske J, Räsänen E. **Introducing libeemd: a program package for performing the ensemble empirical mode decomposition.** Computational Statistics. 2016 Jun 1;31(2):545-557. <https://doi.org/10.1007/s00180-015-0603-9>
- Häkkinen A, Ribeiro AS. **Characterizing rate limiting steps in transcription from RNA production times in live cells.** Bioinformatics. 2016 May 1;32(9):1346-1352. <https://doi.org/10.1093/bioinformatics/btv744>
- Dumitrescu B, Şicleru BC, Avram F. **Modeling probability densities with sums of exponentials via polynomial approximation.** Journal of Computational and Applied Mathematics. 2016;292:513-525. <https://doi.org/10.1016/j.cam.2015.07.032>
- Eriksson S-L, Orelma H. **On k-Hypermonogenic Functions and Their Mean Value Properties.** Complex Analysis and Operator Theory. 2016;10(2):311-325. <https://doi.org/10.1007/s11785-015-0445-z>
- Ylinen A, Mäkinen J, Kouhia R. **Two models for hydraulic cylinders in flexible multibody simulations.** In Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction. Springer. 2016. p. 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. **A robust AMMI model for the analysis of genotype-by-environment data.** Bioinformatics. 2015 Jul 1;32(1):58-66. <https://doi.org/10.1093/bioinformatics/btv533>

Dehmer M, Emmert-Streib F, Shi Y. **Graph distance measures based on topological indices revisited**. Applied Mathematics and Computation. 2015 Jun 18;266:623-633. <https://doi.org/10.1016/j.amc.2015.05.072>

Häkkinen A, Ribeiro AS. **Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data**. Bioinformatics. 2015 Jan 1;31(1):69-75. <https://doi.org/10.1093/bioinformatics/btu592>

Karilainen T, Cramariuc O, Kuisma M, Tappura K, Hukka TI. **Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads**. Journal of Computational Chemistry. 2015;36(9):612-621. <https://doi.org/10.1002/jcc.23834>

Chen Z, Dehmer M, Emmert-Streib F, Shi Y. **Entropy bounds for dendrimers**. Applied Mathematics and Computation. 2014 Sep 1;242:462-472. <https://doi.org/10.1016/j.amc.2014.05.105>

Tripathi S, Dehmer M, Emmert-Streib F. **NetBioV: An R package for visualizing large network data in biology and medicine**. Bioinformatics. 2014 Apr 2;30(19):2834-2836. <https://doi.org/10.1093/bioinformatics/btu384>

Rahmatallah Y, Emmert-Streib F, Glazko G. **Gene Sets Net Correlations Analysis (GSNCA): A multivariate differential coexpression test for gene sets**. Bioinformatics. 2014 Feb 1;30(3):360-368. <https://doi.org/10.1093/bioinformatics/btt687>

Wang J, Ray AK. **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. 2014;11(7):1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

Enkavi G, Li J, Wen P, Thangapandian S, Moradi M, Jiang T et al. **A microscopic view of the mechanisms of active transport across the cellular membrane**. Annual Reports in Computational Chemistry. 2014;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 et al. **Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels: First-principles and Ising model study**. Computational Materials Science. 2014;92:135-140. <https://doi.org/10.1016/j.commatsci.2014.05.036>

Dehmer M, Grabner M, Mowshowitz A, Emmert-Streib F. **An efficient heuristic approach to detecting graph isomorphism based on combinations of highly discriminating invariants**. Advances in Computational Mathematics. 2013 Aug;39(2):311-325. <https://doi.org/10.1007/s10444-012-9281-0>

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

Ma L, Ray AK. **Growth behavior and magnetic properties of spherical uranium oxide nanoclusters**. Journal of Computational and Theoretical Nanoscience. 2013 Feb;10(2):334-340. <https://doi.org/10.1166/jctn.2013.2701>

Rahmatallah Y, Emmert-Streib F, Glazko G. **Gene set analysis for self-contained tests: Complex null and specific alternative hypotheses**. Bioinformatics. 2012 Dec;28(23):3073-3080. <https://doi.org/10.1093/bioinformatics/bts579>

Emmert-Streib F. **Universal construction mechanism for networks from one-dimensional symbol sequences**. Applied Mathematics and Computation. 2012 Oct 15;219(3):1020-1030. <https://doi.org/10.1016/j.amc.2012.07.006>

Emmert-Streib F. **Evolutionary dynamics of the spatial Prisoner's Dilemma with self-inhibition**. Applied Mathematics and Computation. 2012 Feb 5;218(11):6482-6488. <https://doi.org/10.1016/j.amc.2011.12.018>

Uusitalo MA, Peltonen J, Ryhänen T. **Machine learning: How it can help nanocomputing**. Journal of Computational and Theoretical Nanoscience. 2011 Aug;8(8):1347-1363. <https://doi.org/10.1166/jctn.2011.1821>

Yu G, Zhang B, Bova GS, Xu J, Shih IM, Wang Y. **BACOM: In silico detection of genomic deletion types and correction of normal cell contamination in copy number data**. Bioinformatics. 2011 Jun;27(11):1473-1480. btr183. <https://doi.org/10.1093/bioinformatics/btr183>

Belahcen A, Kouhia R, Fonteyn K. **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. 2011. p. 472-483

Altay G, Emmert-Streib F. **Revealing differences in gene network inference algorithms on the network level by ensemble methods**. Bioinformatics. 2010 May 25;26(14):1738-1744. btq259. <https://doi.org/10.1093/bioinformatics/btq259>

Glazko GV, Emmert-Streib F. **Unite and conquer: Univariate and multivariate approaches for finding differentially expressed gene sets**. Bioinformatics. 2009 Sep;25(18):2348-2354. <https://doi.org/10.1093/bioinformatics/btp406>

Dehmer M, Emmert-Streib F, Gesell T. **A comparative analysis of multidimensional features of objects resembling sets of graphs**. Applied Mathematics and Computation. 2008 Feb 15;196(1):221-235. <https://doi.org/10.1016/j.amc.2007.05.058>

Dehmer M, Emmert-Streib F. **Structural similarity of directed universal hierarchical graphs: A low computational complexity approach**. Applied Mathematics and Computation. 2007 Dec 1;194(1):7-20. <https://doi.org/10.1016/j.amc.2007.04.006>

Emmert-Streib F, Dehmer M. **Information theoretic measures of UHG graphs with low computational complexity**. Applied Mathematics and Computation. 2007 Jul 15;190(2):1783-1794. <https://doi.org/10.1016/j.amc.2007.02.095>

Dehmer M, Emmert-Streib F. **Comparing large graphs efficiently by margins of feature vectors**. Applied Mathematics and Computation. 2007 May 15;188(2):1699-1710. <https://doi.org/10.1016/j.amc.2006.11.185>

Emmert-Streib F, Dehmer M. **Topological mappings between graphs, trees and generalized trees**. Applied Mathematics and Computation. 2007 Mar 15;186(2):1326-1333. <https://doi.org/10.1016/j.amc.2006.07.162>

Dehmer M, Emmert-Streib F, Kilian J. **A similarity measure for graphs with low computational complexity**. Applied Mathematics and Computation. 2006 Nov 1;182(1):447-459. <https://doi.org/10.1016/j.amc.2006.04.006>

Emmert-Streib F. **Algorithmic computation of knot polynomials of secondary structure elements of proteins**. Journal of Computational Biology. 2006 Oct 1;13(8):1503-1512. <https://doi.org/10.1089/cmb.2006.13.1503>

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