

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

Wang, Jianguang and Asok K. Ray. "A full-potential linearized augmented plane wave study of the interaction of CO₂ with α -Pu (020) surface nanolayers". *Journal of Computational and Theoretical Nanoscience*. 2014, 11(7). 1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

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

Enkavi, Giray 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>

Levämäki, H. et al. "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>

Dehmer, Matthias et al. "An efficient heuristic approach to detecting graph isomorphism based on combinations of highly discriminating invariants". *Advances in Computational Mathematics*. 2013, 39(2). 311-325. <https://doi.org/10.1007/s10444-012-9281-0>

Yin, Qian et al. "A novel epidemic model considering demographics and intercity commuting on complex dynamical networks". *Applied Mathematics and Computation*. 2020. 386. <https://doi.org/10.1016/j.amc.2020.125517>

Rodrigues, Paulo C., Andreia Monteiro and Vanda M. Lourenço. "A robust AMMI model for the analysis of genotype-by-environment data". *Bioinformatics*. 2015, 32(1). 58-66. <https://doi.org/10.1093/bioinformatics/btv533>

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

Yu, Guoqiang et al. "BACOM: In silico detection of genomic deletion types and correction of normal cell contamination in copy number data". *Bioinformatics*. 2011, 27(11). 1473-1480. <https://doi.org/10.1093/bioinformatics/btr183>

Häkkinen, Antti and Andre S. Ribeiro. "Characterizing rate limiting steps in transcription from RNA production times in live cells". *Bioinformatics*. 2016, 32(9). 1346-1352. <https://doi.org/10.1093/bioinformatics/btv744>

Dong, Guoqing et al. "Chipless graphene tag and dual-CP reader for Internet of Things". *2017 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2017*. IEEE. 2017.

Kuang, Ye et al. "Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems". *2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018*. IEEE. 2019. <https://doi.org/10.23919/ACCESS.2018.8669314>

Kartasalo, Kimmo et al. "Comparative analysis of tissue reconstruction algorithms for 3D histology". *Bioinformatics*. 2018, 34(17). 3013-3021. <https://doi.org/10.1093/bioinformatics/bty210>

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

Ma, Shubin et al. "Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development". *2018 International Applied Computational Electromagnetics Society (ACES) Symposium: 29 July-1 Aug. 2018, China*. IEEE. 2019. <https://doi.org/10.23919/ACCESS.2018.8669363>

- Stockrahm, Alex et al. "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>
- Ma, Li et al. "Density functional theory study of FePd_n (n = 2-14) clusters and interactions with small molecules". *Computational Materials Science*. 2013, 68. 166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>
- Chen, Zengqiang et al. "Entropy bounds for dendrimers". *Applied Mathematics and Computation*. 2014, 242. 462-472. <https://doi.org/10.1016/j.amc.2014.05.105>
- Häkkinen, Antti and Andre S. Ribeiro. "Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data". *Bioinformatics*. 2015, 31(1). 69-75. <https://doi.org/10.1093/bioinformatics/btu592>
- Emmert-Streib, Frank. "Evolutionary dynamics of the spatial Prisoner's Dilemma with self-inhibition". *Applied Mathematics and Computation*. 2012, 218(11). 6482-6488. <https://doi.org/10.1016/j.amc.2011.12.018>
- Rahmatallah, Y., F. Emmert-Streib and G. Glazko. "Gene set analysis for self-contained tests: Complex null and specific alternative hypotheses". *Bioinformatics*. 2012, 28(23). 3073-3080. <https://doi.org/10.1093/bioinformatics/bts579>
- Rahmatallah, Yasir, Frank Emmert-Streib and Galina Glazko. "Gene Sets Net Correlations Analysis (GSNCA): A multivariate differential coexpression test for gene sets". *Bioinformatics*. 2014, 30(3). 360-368. <https://doi.org/10.1093/bioinformatics/btt687>
- Dehmer, Matthias, Frank Emmert-Streib and Yongtang Shi. "Graph distance measures based on topological indices revisited". *Applied Mathematics and Computation*. 2015, 266. 623-633. <https://doi.org/10.1016/j.amc.2015.05.072>
- Wan, Pengfei et al. "Graph entropy based on the number of spanning forests of c-cyclic graphs". *Applied Mathematics and Computation*. 2019. 363. <https://doi.org/10.1016/j.amc.2019.124616>
- Ma, Li and Asok K. Ray. "Growth behavior and magnetic properties of spherical uranium oxide nanoclusters". *Journal of Computational and Theoretical Nanoscience*. 2013, 10(2). 334-340. <https://doi.org/10.1166/jctn.2013.2701>
- Orelma, H. and N. Vieira. "Homogeneous (α, 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>
- Eriksson, S. L., H. Orelma and N. Vieira. "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>
- Guzmán Adán, Alí, Heikki Orelma and Franciscus Sommen. "Hypermonogenic solutions and plane waves of the Dirac operator in $\mathbb{R}^p \times \mathbb{R}^q$ ". *Applied Mathematics and Computation*. 2019, 346. 1-14. <https://doi.org/10.1016/j.amc.2018.09.058>
- Emmert-Streib, Frank and Matthias Dehmer. "Information theoretic measures of UHG graphs with low computational complexity". *Applied Mathematics and Computation*. 2007, 190(2). 1783-1794. <https://doi.org/10.1016/j.amc.2007.02.095>
- Vuojamo, Vesa and Sirkka-Liisa Eriksson. "Integral kernels for k-hypermonogenic functions". *Complex Variables and Elliptic Equations*. 2017, 62(9). 1-12. <https://doi.org/10.1080/17476933.2016.1250402>
- Luukko, P. J. J., J. Helske, and E. Räsänen. "Introducing libeemd: a program package for performing the ensemble empirical mode decomposition". *Computational Statistics*. 2016, 31(2). 545-557. <https://doi.org/10.1007/s00180-015-0603-9>

Singh, Arun Kumar et al. "Introducing Multi-Convexity in Path Constrained Trajectory Optimization for Mobile Manipulators". *European Control Conference 2020, ECC 2020*. IEEE. 2020, 1178-1185.

Uusitalo, Mikko A., Jaakko Peltonen and Tapani Ryhänen. "Machine learning: How it can help nanocomputing". *Journal of Computational and Theoretical Nanoscience*. 2011, 8(8). 1347-1363. <https://doi.org/10.1166/jctn.2011.1821>

Airiskallio, E. 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>

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

Kuva, J., M. Voutilainen and K. Mattila. "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>

Dumitrescu, Bogdan, Bogdan C. Şicleru and Florin Avram. "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>

Carabias Orti, Julio Jose et al. "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, 26(9). 1512-1527. <https://doi.org/10.1109/TASLP.2018.2830105>

Tripathi, Shailesh, Matthias Dehmer, and Frank Emmert-Streib. "NetBioV: An R package for visualizing large network data in biology and medicine". *Bioinformatics*. 2014, 30(19). 2834-2836. <https://doi.org/10.1093/bioinformatics/btu384>

Dehmer, Matthias et al. "On efficient network similarity measures". *Applied Mathematics and Computation*. 2019. 362. <https://doi.org/10.1016/j.amc.2019.06.035>

Eriksson, Sirkka-Liisa and Heikki Orelma. "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>

Batty, Charles, Lassi Paunonen and David Seifert. "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>

Dehmer, Matthias et al. "Relations and bounds for the zeros of graph polynomials using vertex orbits". *Applied Mathematics and Computation*. 2020. 380. <https://doi.org/10.1016/j.amc.2020.125239>

Gusrialdi, Azwirman et al. "Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources". *European Control Conference 2020, ECC 2020*. IEEE. 2020, 1533-1539.

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

Stupnikov, Alexey et al. "SamExploreR: Exploring reproducibility and robustness of RNA-seq results based on SAM files". *Bioinformatics*. 2016, 32(21). 3345-3347. <https://doi.org/10.1093/bioinformatics/btw475>

Hella, Lauri et al. "Satisfiability of modal inclusion logic: Lax and strict semantics". *ACM TRANSACTIONS ON COMPUTATIONAL LOGIC*. 2019. 21(1). <https://doi.org/10.1145/3356043>

Martins, Leonardo et al. "SCIP: a single-cell image processor toolbox". *Bioinformatics*. 2018, 34(24). 4318-4320. <https://doi.org/10.1093/bioinformatics/bty505>

Mesaros, Annamaria et al. "Sound Event Detection in the DCASE 2017 Challenge". *IEEE/ACM Transactions on Audio Speech and Language Processing*. 2019, 27(6). 992-1006. <https://doi.org/10.1109/TASLP.2019.2907016>

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

Belahcen, A., R. Kouhia and K. Fonteyn "The different levels of magneto-mechanical coupling in energy conversion machines and devices". *Proceedings of the 4th International Conference on Computational Methods for Coupled Problems in Science and Engineering, COUPLED PROBLEMS 2011*. 2011, 472-483.

Ghorbani, Modjtaba et al. "The watching system as a generalization of identifying code". *Applied Mathematics and Computation*. 2020. 380. <https://doi.org/10.1016/j.amc.2020.125302>

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

Ylinen, Antti, Jari Mäkinen, and Reijo Kouhia "Two models for hydraulic cylinders in flexible multibody simulations". *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction*. Computational Methods in Applied Sciences. Springer. 2016, 463-493. https://doi.org/10.1007/978-3-319-27996-1_17

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

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

Karilainen, Topi et al. "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>

Yang, Dan et al. "Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation". *9th International Conference on Information Science and Technology, ICIST 2019*. IEEE. 2019, 65-70. <https://doi.org/10.1109/ICIST.2019.8836907>