

- Airiskallio, E., Nurmi, E., Väyrynen, I. J., Kokko, K., Ropo, M., Punkkinen, M. P. J., ... 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>
- 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. [btq259]. <https://doi.org/10.1093/bioinformatics/btq259>
- 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>
- 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)
- Carabias Orti, J. J., 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>
- 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>
- 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>
- 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., 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>
- 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>
- 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>
- 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>
- Dehmer, M., Chen, Z., Shi, Y., Zhang, Y., Tripathi, S., Ghorbani, M., ... Emmert-Streib, F. (2019). On efficient network similarity measures. *Applied Mathematics and Computation*, *362*, [124521]. <https://doi.org/10.1016/j.amc.2019.06.035>
- Dehmer, M., Emmert-Streib, F., Mowshowitz, A., Ilić, A., Chen, Z., Yu, G., ... Tao, J. (2020). Relations and bounds for the zeros of graph polynomials using vertex orbits. *Applied Mathematics and Computation*, *380*, [125239]. <https://doi.org/10.1016/j.amc.2020.125239>
- 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*.

Dumitrescu, B., Şicleru, B. C., & 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>

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>

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>

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>

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>

Enkavi, G., Li, J., Wen, P., Thangapandian, S., Moradi, M., Jiang, T., ... 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>

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>

Eriksson, S. L., 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>

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, [125302]. <https://doi.org/10.1016/j.amc.2020.125302>

Glazko, G. V., & 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>

Gusrialdi, A., Xu, Y., Qu, Z., & Simaan, M. A. (2020). Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources. In *European Control Conference 2020, ECC 2020* (pp. 1533-1539). IEEE.

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*, 346, 1-14. <https://doi.org/10.1016/j.amc.2018.09.058>

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

Häkkinen, A., & Ribeiro, A. S. (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>

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), [7]. <https://doi.org/10.1145/3356043>

- Karilainen, T., Cramariuc, O., Kuisma, M., Tappura, K., & Hukka, T. I. (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>
- Kartasalo, K., Latonen, L., Vihinen, J., Visakorpi, T., Nykter, M., & Ruusuvuori, P. (2018). Comparative analysis of tissue reconstruction algorithms for 3D histology. *Bioinformatics*, *34*(17), 3013-3021. <https://doi.org/10.1093/bioinformatics/bty210>
- 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>
- 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>
- 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>
- Luukko, P. J. J., 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>
- Ma, L., & Ray, A. K. (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>
- Ma, L., Wang, J., Hao, Y., & Wang, G. (2013). Density functional theory study of FePd_n (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, 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>
- Martins, L., Neeli-Venkata, R., Oliveira, S. M. D., Häkkinen, A., Ribeiro, A. S., & Fonseca, J. M. (2018). SCIP: a single-cell image processor toolbox. *Bioinformatics*, *34*(24), 4318-4320. <https://doi.org/10.1093/bioinformatics/bty505>
- 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>
- Orelma, H., & Vieira, N. (2017). Homogeneous (α,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>
- 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>
- 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>
- Rodrigues, P. C., Monteiro, A., & Lourenço, V. M. (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>

Singh, A. K., 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* (pp. 1178-1185). IEEE.

Stockrahm, A., Lahtinen, V., Kangas, J. J. J., & Kotiuga, P. R. (Accepted/In press). 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>

Stupnikov, A., Tripathi, S., De Matos Simoes, R., McArt, D., Salto-Tellez, M., Glazko, G., ... 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>

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>

Uusitalo, M. A., 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>

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)

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>

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*, [124616]. <https://doi.org/10.1016/j.amc.2019.124616>

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

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* (pp. 65-70). IEEE. <https://doi.org/10.1109/ICIST.2019.8836907>

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*, [125517]. <https://doi.org/10.1016/j.amc.2020.125517>

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* (pp. 463-493). (Computational Methods in Applied Sciences; Vol. 41). Springer. https://doi.org/10.1007/978-3-319-27996-1_17

Yu, G., Zhang, B., Bova, G. S., Xu, J., Shih, I. M., & 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. [btr183]. <https://doi.org/10.1093/bioinformatics/btr183>