

Valkealahti, S. ; Manninen, M. / **Melting of copper clusters**. In: Computational Materials Science. 1993 ; Vol. 1, No. 2. pp. 123-134.

Emmert-Streib, Frank. / **Algorithmic computation of knot polynomials of secondary structure elements of proteins**. In: Journal of Computational Biology. 2006 ; Vol. 13, No. 8. pp. 1503-1512.

Dehmer, Matthias ; Emmert-Streib, Frank ; Kilian, Jürgen. / **A similarity measure for graphs with low computational complexity**. In: Applied Mathematics and Computation. 2006 ; Vol. 182, No. 1. pp. 447-459.

Emmert-Streib, Frank ; Dehmer, Matthias. / **Topological mappings between graphs, trees and generalized trees**. In: Applied Mathematics and Computation. 2007 ; Vol. 186, No. 2. pp. 1326-1333.

Dehmer, Matthias ; Emmert-Streib, Frank. / **Comparing large graphs efficiently by margins of feature vectors**. In: Applied Mathematics and Computation. 2007 ; Vol. 188, No. 2. pp. 1699-1710.

Emmert-Streib, Frank ; Dehmer, Matthias. / **Information theoretic measures of UHG graphs with low computational complexity**. In: Applied Mathematics and Computation. 2007 ; Vol. 190, No. 2. pp. 1783-1794.

Dehmer, Matthias ; Emmert-Streib, Frank. / **Structural similarity of directed universal hierarchical graphs : A low computational complexity approach**. In: Applied Mathematics and Computation. 2007 ; Vol. 194, No. 1. pp. 7-20.

Dehmer, Matthias ; Emmert-Streib, Frank ; Gesell, Tanja. / **A comparative analysis of multidimensional features of objects resembling sets of graphs**. In: Applied Mathematics and Computation. 2008 ; Vol. 196, No. 1. pp. 221-235.

Glazko, Galina V. ; Emmert-Streib, Frank. / **Unite and conquer : Univariate and multivariate approaches for finding differentially expressed gene sets**. In: Bioinformatics. 2009 ; Vol. 25, No. 18. pp. 2348-2354.

Altay, Gökmen ; Emmert-Streib, Frank. / **Revealing differences in gene network inference algorithms on the network level by ensemble methods**. In: Bioinformatics. 2010 ; Vol. 26, No. 14. pp. 1738-1744.

Belahcen, A. ; Kouhia, R. ; Fonteyn, K. / **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. pp. 472-483

Yu, Guoqiang ; Zhang, Bai ; Bova, G. Steven ; Xu, Jianfeng ; Shih, le Ming ; Wang, Yue. / **BACOM : In silico detection of genomic deletion types and correction of normal cell contamination in copy number data**. In: Bioinformatics. 2011 ; Vol. 27, No. 11. pp. 1473-1480.

Uusitalo, Mikko A. ; Peltonen, Jaakko ; Ryhänen, Tapani. / **Machine learning : How it can help nanocomputing**. In: Journal of Computational and Theoretical Nanoscience. 2011 ; Vol. 8, No. 8. pp. 1347-1363.

Emmert-Streib, Frank. / **Evolutionary dynamics of the spatial Prisoner's Dilemma with self-inhibition**. In: Applied Mathematics and Computation. 2012 ; Vol. 218, No. 11. pp. 6482-6488.

Emmert-Streib, Frank. / **Universal construction mechanism for networks from one-dimensional symbol sequences**. In: Applied Mathematics and Computation. 2012 ; Vol. 219, No. 3. pp. 1020-1030.

Rahmatallah, Y. ; Emmert-Streib, F. ; Glazko, G. / **Gene set analysis for self-contained tests : Complex null and specific alternative hypotheses**. In: Bioinformatics. 2012 ; Vol. 28, No. 23. pp. 3073-3080.

Ma, Li ; Wang, Jianguang ; Hao, Yuanyuan ; Wang, Guanghou. / **Density functional theory study of FePd_n (n = 2-14) clusters and interactions with small molecules**. In: Computational Materials Science. 2013 ; Vol. 68. pp. 166-173.

Ma, Li ; Ray, Asok K. / **Growth behavior and magnetic properties of spherical uranium oxide nanoclusters**. In: Journal of Computational and Theoretical Nanoscience. 2013 ; Vol. 10, No. 2. pp. 334-340.

Dehmer, Matthias ; Grabner, Martin ; Mowshowitz, Abbe ; Emmert-Streib, Frank. / **An efficient heuristic approach to detecting graph isomorphism based on combinations of highly discriminating invariants**. In: Advances in Computational Mathematics. 2013 ; Vol. 39, No. 2. pp. 311-325.

Wang, Jianguang ; Ray, Asok K. / **A full-potential linearized augmented plane wave study of the interaction of CO₂ with α -Pu (020) surface nanolayers**. In: Journal of Computational and Theoretical Nanoscience. 2014 ; Vol. 11, No. 7. pp. 1710-1717.

Enkavi, Giray ; Li, Jing ; Wen, Pochao ; Thangapandian, Sundarapandian ; Moradi, Mahmoud ; Jiang, Tao ; Han, Wei ; Tajkhorshid, Emad. / **A microscopic view of the mechanisms of active transport across the cellular membrane**. In: Annual Reports in Computational Chemistry. 2014 ; Vol. 10. pp. 77-125.

Airiskallio, E. ; Nurmi, E. ; Väyrynen, I. J. ; Kokko, K. ; Ropo, M. ; Punkkinen, M. P J ; Johansson, B. ; Vitos, L. / **Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels : First-principles and Ising model study**. In: Computational Materials Science. 2014 ; Vol. 92. pp. 135-140.

Rahmatallah, Yasir ; Emmert-Streib, Frank ; Glazko, Galina. / **Gene Sets Net Correlations Analysis (GSNCA) : A multivariate differential coexpression test for gene sets**. In: Bioinformatics. 2014 ; Vol. 30, No. 3. pp. 360-368.

Tripathi, Shailesh ; Dehmer, Matthias ; Emmert-Streib, Frank. / **NetBioV : An R package for visualizing large network data in biology and medicine**. In: Bioinformatics. 2014 ; Vol. 30, No. 19. pp. 2834-2836.

Chen, Zengqiang ; Dehmer, Matthias ; Emmert-Streib, Frank ; Shi, Yongtang. / **Entropy bounds for dendrimers**. In: Applied Mathematics and Computation. 2014 ; Vol. 242. pp. 462-472.

Karilainen, Topi ; Cramariuc, Oana ; Kuisma, Mikael ; Tappura, Kirsi ; Hukka, Terttu I. / **Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads**. In: Journal of Computational Chemistry. 2015 ; Vol. 36, No. 9. pp. 612-621.

Häkkinen, Antti ; Ribeiro, Andre S. / **Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data**. In: Bioinformatics. 2015 ; Vol. 31, No. 1. pp. 69-75.

Dehmer, Matthias ; Emmert-Streib, Frank ; Shi, Yongtang. / **Graph distance measures based on topological indices revisited**. In: Applied Mathematics and Computation. 2015 ; Vol. 266. pp. 623-633.

Rodrigues, Paulo C. ; Monteiro, Andreia ; Lourenço, Vanda M. / **A robust AMMI model for the analysis of genotype-by-environment data**. In: Bioinformatics. 2015 ; Vol. 32, No. 1. pp. 58-66.

Dumitrescu, Bogdan ; Şicleru, Bogdan C. ; Avram, Florin. / **Modeling probability densities with sums of exponentials via polynomial approximation**. In: Journal of Computational and Applied Mathematics. 2016 ; Vol. 292. pp. 513-525.

Eriksson, Sirkka-Liisa ; Orelma, Heikki. / **On k-Hypermonogenic Functions and Their Mean Value Properties**. In: Complex Analysis and Operator Theory. 2016 ; Vol. 10, No. 2. pp. 311-325.

Ylinen, Antti ; Mäkinen, Jari ; Kouhia, Reijo. / **Two models for hydraulic cylinders in flexible multibody simulations**. Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction. Springer, 2016. pp. 463-493 (Computational Methods in Applied Sciences).

- Häkkinen, Antti ; Ribeiro, Andre S. / **Characterizing rate limiting steps in transcription from RNA production times in live cells**. In: Bioinformatics. 2016 ; Vol. 32, No. 9. pp. 1346-1352.
- Luukko, P. J. J. ; Helske, J. ; Räsänen, E. / **Introducing libeemd : a program package for performing the ensemble empirical mode decomposition**. In: Computational Statistics. 2016 ; Vol. 31, No. 2. pp. 545-557.
- Stupnikov, Alexey ; Tripathi, Shailesh ; De Matos Simoes, Ricardo ; McArt, Darragh ; Salto-Tellez, Manuel ; Glazko, Galina ; Dehmer, Matthias ; Emmert-Streib, Frank. / **SamExploreR : Exploring reproducibility and robustness of RNA-seq results based on SAM files**. In: Bioinformatics. 2016 ; Vol. 32, No. 21. pp. 3345-3347.
- Orelma, H. ; Vieira, N. / **Homogeneous (α, k) -Polynomial Solutions of the Fractional Riesz System in Hyperbolic Space**. In: Complex Analysis and Operator Theory. 2017 ; Vol. 11, No. 5. pp. 1253-1267.
- Vuojamo, Vesa ; Eriksson, Sirkka-Liisa. / **Integral kernels for k-hypermonogenic functions**. In: Complex Variables and Elliptic Equations. 2017 ; Vol. 62, No. 9. pp. 1-12.
- Dong, Guoqing ; Shen, Yizhu ; He, Han ; Virkki, Johanna ; Hu, Sanming. / **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.
- Eriksson, S. L. ; Orelma, H. ; Vieira, N. / **Hypermonogenic Functions of Two Vector Variables**. In: Complex Analysis and Operator Theory. 2018 ; Vol. 12, No. 2. pp. 555-570.
- Carabias Orti, Julio Jose ; Nikunen, Joonas ; Virtanen, Tuomas ; Vera-Candeas, Pedro. / **Multichannel Blind Sound Source Separation using Spatial Covariance Model with Level and Time Differences and Non-Negative Matrix Factorization**. In: IEEE/ACM Transactions on Audio Speech and Language Processing. 2018 ; Vol. 26, No. 9. pp. 1512-1527.
- Kartasalo, Kimmo ; Latonen, Leena ; Vihinen, Jorma ; Visakorpi, Tapio ; Nykter, Matti ; Ruusuvoori, Pekka. / **Comparative analysis of tissue reconstruction algorithms for 3D histology**. In: Bioinformatics. 2018 ; Vol. 34, No. 17. pp. 3013-3021.
- Martins, Leonardo ; Neeli-Venkata, Ramakanth ; Oliveira, Samuel M.D. ; Häkkinen, Antti ; Ribeiro, Andre S. ; Fonseca, José M. / **SCIP : a single-cell image processor toolbox**. In: Bioinformatics. 2018 ; Vol. 34, No. 24. pp. 4318-4320.
- Levämäki, H. ; Tian, L.-Y. ; Vitos, L. ; Ropo, M. / **An automated algorithm for reliable equation of state fitting of magnetic systems**. In: Computational Materials Science. 2019 ; Vol. 156. pp. 121-128.
- Stockrahm, Alex ; Lahtinen, Valtteri ; Kangas, Jari J.J. ; Kotiuga, P. Robert. / **Cuts for 3-D magnetic scalar potentials : Visualizing unintuitive surfaces arising from trivial knots**. In: Computers and Mathematics with Applications. 2019.
- Kuva, J. ; Voutilainen, M. ; Mattila, K. / **Modeling mass transfer in fracture flows with the time domain-random walk method**. In: COMPUTATIONAL GEOSCIENCES. 2019.
- Batty, Charles ; Paunonen, Lassi ; Seifert, David. / **Optimal energy decay for the wave-heat system on a rectangular domain**. In: SIAM JOURNAL ON MATHEMATICAL ANALYSIS. 2019 ; Vol. 51, No. 2. pp. 808-819.
- Kuang, Ye ; Ma, Shubin ; Ukkonen, Leena ; Virkki, Johanna ; Björninen, Toni. / **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.
- Ma, Shubin ; Ukkonen, Leena ; Sydänheimo, Lauri ; Björninen, Toni. / **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.

Guzmán Adán, Alí ; Orelma, Heikki ; Sommen, Franciscus. / **Hypermonogenic solutions and plane waves of the Dirac operator in $\mathbb{R}^p \times \mathbb{R}^q$** . In: Applied Mathematics and Computation. 2019 ; Vol. 346. pp. 1-14.

Mesaros, Annamaria ; Diment, Aleksandr ; Elizalde, Benjamin ; Heittola, Toni ; Vincent, Emmanuel ; Raj, Bhiksha ; Virtanen, Tuomas. / **Sound Event Detection in the DCASE 2017 Challenge**. In: IEEE/ACM Transactions on Audio Speech and Language Processing. 2019 ; Vol. 27, No. 6. pp. 992-1006.

Yang, Dan ; Qian, Yanlin ; Cai, Dingding ; Yan, Song ; Kämäräinen, Joni-Kristian ; Chen, Ke. / **Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation**. 9th International Conference on Information Science and Technology, ICIST 2019. IEEE, 2019. pp. 65-70

Hella, Lauri ; Kuusisto, Antti ; Meier, Arne ; Vollmer, Heribert. / **Satisfiability of modal inclusion logic : Lax and strict semantics**. In: ACM TRANSACTIONS ON COMPUTATIONAL LOGIC. 2019 ; Vol. 21, No. 1.

Dehmer, Matthias ; Chen, Zengqiang ; Shi, Yongtang ; Zhang, Y. ; Tripathi, Shailesh ; Ghorbani, Modjtaba ; Mowshowitz, Abbe ; Emmert-Streib, F. / **On efficient network similarity measures**. In: Applied Mathematics and Computation. 2019 ; Vol. 362.

Wan, Pengfei ; Tu, Jianhua ; Dehmer, Matthias ; Zhang, Shenggui ; Emmert-Streib, Frank. / **Graph entropy based on the number of spanning forests of c-cyclic graphs**. In: Applied Mathematics and Computation. 2019 ; Vol. 363.

Yin, Qian ; Wang, Zhishuang ; Xia, Chengyi ; Dehmer, Matthias ; Emmert-Streib, Frank ; Jin, Zhen. / **A novel epidemic model considering demographics and intercity commuting on complex dynamical networks**. In: Applied Mathematics and Computation. 2020 ; Vol. 386.

Singh, Arun Kumar ; Ahonen, Andrei ; Ghabcheloo, Reza ; Mueller, Andreas. / **Introducing Multi-Convexity in Path Constrained Trajectory Optimization for Mobile Manipulators**. European Control Conference 2020, ECC 2020. IEEE, 2020. pp. 1178-1185

Gusrialdi, Azwirman ; Xu, Ying ; Qu, Zhihua ; Simaan, Marwan A. / **Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources**. European Control Conference 2020, ECC 2020. IEEE, 2020. pp. 1533-1539

Ghorbani, Modjtaba ; Dehmer, Matthias ; Maimani, Hamidreza ; Maddah, Sheyda ; Roozbayani, Maryam ; Emmert-Streib, Frank. / **The watching system as a generalization of identifying code**. In: Applied Mathematics and Computation. 2020 ; Vol. 380.

Dehmer, Matthias ; Emmert-Streib, Frank ; Mowshowitz, Abbe ; Ilić, Aleksandar ; Chen, Zengqiang ; Yu, Guihai ; Feng, Lihua ; Ghorbani, Modjtaba ; Varmuza, Kurt ; Tao, Jin. / **Relations and bounds for the zeros of graph polynomials using vertex orbits**. In: Applied Mathematics and Computation. 2020 ; Vol. 380.