

**A comparison between joint regression analysis and the AMMI model : A case study with barley.** / Pereira, Dulce G.; Rodrigues, Paulo C.; Mejza, Stanislaw; Mexia, João T.  
In: JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, Vol. 82, No. 2, 02.2012, p. 193-207.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Ageing first passage time density in continuous time random walks and quenched energy landscapes.** / Krüsemann, Henning; Godec, Aljaž; Metzler, Ralf.  
In: Journal of Physics A: Mathematical and Theoretical, Vol. 48, No. 28, 285001, 17.07.2015.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Aging scaled Brownian motion.** / Safdari, Hadiseh; Chechkin, Aleksei V.; Jafari, Gholamreza R.; Metzler, Ralf.  
In: Physical Review E, Vol. 91, No. 4, 042107, 07.04.2015.  
Research output: Contribution to journal › Article › Scientific › peer-review

**A robust AMMI model for the analysis of genotype-by-environment data.** / Rodrigues, Paulo C.; Monteiro, Andreia; Lourenço, Vanda M.  
In: Bioinformatics, Vol. 32, No. 1, 01.07.2015, p. 58-66.  
Research output: Contribution to journal › Article › Scientific › peer-review

**A stochastic model for survival of early prostate cancer with adjustments for leadtime, length bias, and over-detection.** / Wu, Grace Hui Min; Auvinen, Anssi; Yen, Amy Ming Fang; Hakama, Matti; Walter, Stephen D.; Chen, Hsiu Hsi.  
In: Biometrical Journal, Vol. 54, No. 1, 01.2012, p. 20-44.  
Research output: Contribution to journal › Article › Scientific › peer-review

**BACOM : In silico detection of genomic deletion types and correction of normal cell contamination in copy number data.** / Yu, Guoqiang; Zhang, Bai; Bova, G. Steven; Xu, Jianfeng; Shih, Ie Ming; Wang, Yue.  
In: Bioinformatics, Vol. 27, No. 11, btr183, 06.2011, p. 1473-1480.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Characterizing rate limiting steps in transcription from RNA production times in live cells.** / Häkkinen, Antti; Ribeiro, Andre S.  
In: Bioinformatics, Vol. 32, No. 9, 01.05.2016, p. 1346-1352.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Clustering-based method for developing a genomic copy number alteration signature for predicting the metastatic potential of prostate cancer.** / Pearlman, Alexander; Campbell, Christopher; Brooks, Eric; Genshaft, Alex; Shajahan, Shahin; Ittman, Michael; Bova, G. Steven; Melamed, Jonathan; Holcomb, Ilona; Schneider, Robert J.; Ostrer, Harry.  
In: JOURNAL OF PROBABILITY AND STATISTICS, 2012.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Comparative analysis of tissue reconstruction algorithms for 3D histology.** / Kartasalo, Kimmo; Latonen, Leena; Vihinen, Jorma; Visakorpi, Tapio; Nykter, Matti; Ruusuvoori, Pekka.  
In: Bioinformatics, Vol. 34, No. 17, 01.09.2018, p. 3013-3021.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Conformational properties of complex polymers : Rosette versus star-like structures.** / Blavatska, V.; Metzler, R.  
In: Journal of Physics A: Mathematical and Theoretical, Vol. 48, No. 13, 135001, 07.04.2015.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Diffusion through thin membranes : Modeling across scales.** / Aho, Vesa; Mattila, Keijo; Kühn, Thomas; Kekäläinen, Pekka; Pulkkinen, Otto; Minussi, Roberta Brondani; Vihinen-Ranta, Maija; Timonen, Jussi.  
In: Physical Review E, Vol. 93, No. 4, 043309, 12.04.2016.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Dynamics of coupled repressilators : The role of mRNA kinetics and transcription cooperativity.** / Potapov, I.; Volkov, E.; Kuznetsov, A.

In: Physical Review E, Vol. 83, No. 3, 031901, 04.03.2011.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Dynamics of intracranial electroencephalographic recordings from epilepsy patients using univariate and bivariate recurrence networks.** / Subramaniyam, Narayan Puthanmadam; Hyttinen, Jari.

In: Physical Review E, Vol. 91, No. 2, 022927, 27.02.2015.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Ergodicity breaking, ageing, and confinement in generalized diffusion processes with position and time dependent diffusivity.** / Cherstvy, Andrey G.; Metzler, Ralf.

In: Journal of Statistical Mechanics: Theory and Experiment, Vol. 2015, No. 5, P05010, 15.05.2015.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data.** / Häkkinen, Antti; Ribeiro, Andre S.

In: Bioinformatics, Vol. 31, No. 1, 01.01.2015, p. 69-75.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Exploratory analysis of spatiotemporal patterns of cellular automata by clustering compressibility.** / Emmert-Streib, Frank.

In: Physical Review E, Vol. 81, No. 2, 026103, 08.02.2010.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Fault tolerance of information processing in gene networks.** / Emmert-Streib, Frank; Dehmer, Matthias.

In: Physica A: Statistical Mechanics and Its Applications, Vol. 388, No. 4, 15.02.2009, p. 541-548.  
Research output: Contribution to journal › Article › Scientific › peer-review

**First-principles data set of 45,892 isolated and cation-coordinated conformers of 20 proteinogenic amino acids.** / Ropo, Matti; Schneider, Markus; Baldauf, Carsten; Blum, Volker.

In: Scientific Data, Vol. 3, 160009, 16.02.2016.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Forecasting mortality rate by singular spectrum analysis.** / Mahmoudvand, Rahim; Alehosseini, Fatemeh; Rodrigues, Paulo Canas.

In: REVSTAT STATISTICAL JOURNAL, Vol. 13, No. 3, 01.11.2015, p. 193-206.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Generative modeling for maximizing precision and recall in information visualization.** / Peltonen, Jaakko; Kaski, Samuel.

In: Journal of Machine Learning Research, Vol. 15, 2011, p. 579-587.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Gene set analysis for self-contained tests : Complex null and specific alternative hypotheses.** / Rahmatallah, Y.; Emmert-Streib, F.; Glazko, G.

In: Bioinformatics, Vol. 28, No. 23, 12.2012, p. 3073-3080.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Gene Sets Net Correlations Analysis (GSNCA) : A multivariate differential coexpression test for gene sets.** / Rahmatallah, Yasir; Emmert-Streib, Frank; Glazko, Galina.

In: Bioinformatics, Vol. 30, No. 3, 01.02.2014, p. 360-368.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Hermitian one-particle density matrix through a semiclassical gradient expansion.** / Bencheikh, K.; Räsänen, E.

In: Journal of Physics A: Mathematical and Theoretical, Vol. 49, No. 1, 015205, 09.12.2015.  
Research output: Contribution to journal › Article › Scientific › peer-review

**High-Reynolds-number turbulent cavity flow using the lattice Boltzmann method.** / Hegele, L. A.; Scagliarini, A.;

Sbragaglia, M.; Mattila, K. K.; Philippi, P. C.; Puleri, D. F.; Gounley, J.; Randles, A.  
In: Physical Review E, Vol. 98, No. 4, 043302, 04.10.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

**Information retrieval perspective to meta-visualization.** / Peltonen, Jaakko; Lin, Ziyuan.

In: Journal of Machine Learning Research, Vol. 29, 2013, p. 165-180.

Research output: Contribution to journal › Article › Scientific › peer-review

**Introducing libeemd : a program package for performing the ensemble empirical mode decomposition.** / Luukko, P. J. J.; Helske, J.; Räsänen, E.

In: Computational Statistics, Vol. 31, No. 2, 01.06.2016, p. 545-557.

Research output: Contribution to journal › Article › Scientific › peer-review

**Investigation of an entropic stabilizer for the lattice-Boltzmann method.** / Mattila, Keijo K.; Hegele, Luiz A.; Philippi, Paulo C.

In: Physical Review E, Vol. 91, No. 6, 063010, 19.06.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**Majorization-minimization for manifold embedding.** / Yang, Zhirong; Peltonen, Jaakko; Kaski, Samuel.

In: Journal of Machine Learning Research, Vol. 38, 2015, p. 1088-1097.

Research output: Contribution to journal › Article › Scientific › peer-review

**NetBioV : An R package for visualizing large network data in biology and medicine.** / Tripathi, Shailesh; Dehmer, Matthias; Emmert-Streib, Frank.

In: Bioinformatics, Vol. 30, No. 19, 02.04.2014, p. 2834-2836.

Research output: Contribution to journal › Article › Scientific › peer-review

**Nonlinear continuous-wave optical propagation in nematic liquid crystals : Interplay between reorientational and thermal effects.** / Alberucci, Alessandro; Laudyn, Urszula A.; Piccardi, Armando; Kwasny, Michał; Klus, Bartłomiej; Karpierz, Mirosław A.; Assanto, Gaetano.

In: Physical Review E, Vol. 96, No. 1, 012703, 11.07.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

**Optimization and universality of Brownian search in a basic model of quenched heterogeneous media.** / Godec, Aljaž; Metzler, Ralf.

In: Physical Review E, Vol. 91, No. 5, 052134, 21.05.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**Parity-time-symmetric solitons in trapped Bose-Einstein condensates and the influence of varying complex potentials : A variational approach.** / Devassy, Lini; Jisha, Chandroth P.; Alberucci, Alessandro; Kuriakose, V. C.

In: Physical Review E, Vol. 92, No. 2, 022914, 19.08.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**Quantifying the non-ergodicity of scaled Brownian motion.** / Safdari, Hadiseh; Cherstvy, Andrey G.; Checkin, Aleksei V.; Thiel, Felix; Sokolov, Igor M.; Metzler, Ralf.

In: Journal of Physics A: Mathematical and Theoretical, Vol. 48, No. 37, 375002, 18.09.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**Reorientational versus Kerr dark and gray solitary waves using modulation theory.** / Assanto, Gaetano; Marchant, T. R.; Minzoni, Antonmaria A.; Smyth, Noel F.

In: Physical Review E, Vol. 84, No. 6, 066602, 09.12.2011.

Research output: Contribution to journal › Article › Scientific › peer-review

**Revealing differences in gene network inference algorithms on the network level by ensemble methods.** / Altay, Gökmen; Emmert-Streib, Frank.

In: Bioinformatics, Vol. 26, No. 14, btq259, 25.05.2010, p. 1738-1744.

Research output: Contribution to journal › Article › Scientific › peer-review

**SamExploreR : Exploring reproducibility and robustness of RNA-seq results based on SAM files.** / Stupnikov, Alexey; Tripathi, Shailesh; De Matos Simoes, Ricardo; McArt, Darragh; Salto-Tellez, Manuel; Glazko, Galina; Dehmer, Matthias; Emmert-Streib, Frank.

In: *Bioinformatics*, Vol. 32, No. 21, 01.11.2016, p. 3345-3347.

Research output: Contribution to journal › Article › Scientific › peer-review

**SCIP : a single-cell image processor toolbox.** / Martins, Leonardo; Neeli-Venkata, Ramakanth; Oliveira, Samuel M.D.; Häkkinen, Antti; Ribeiro, Andre S.; Fonseca, José M.

In: *Bioinformatics*, Vol. 34, No. 24, 15.12.2018, p. 4318-4320.

Research output: Contribution to journal › Article › Scientific › peer-review

**Search reliability and search efficiency of combined Lévy-Brownian motion : Long relocations mingled with thorough local exploration.** / Palyulin, Vladimir V.; Chechkin, Aleksei V.; Klages, Rainer; Metzler, Ralf.

In: *Journal of Physics A: Mathematical and Theoretical*, Vol. 49, No. 39, 394002, 08.09.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

**Signal focusing through active transport.** / Godec, Aljaž; Metzler, Ralf.

In: *Physical Review E*, Vol. 92, No. 1, 010701, 02.07.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**Structured orthogonal families of one and two strata prime basis factorial models.** / Rodrigues, Paulo C.; Moreira, Elsa E.; Jesus, Vera M.; Mexia, João T.

In: *Statistical Papers*, Vol. 55, No. 3, 2014, p. 603-614.

Research output: Contribution to journal › Article › Scientific › peer-review

**Unite and conquer : Univariate and multivariate approaches for finding differentially expressed gene sets.** / Glazko, Galina V.; Emmert-Streib, Frank.

In: *Bioinformatics*, Vol. 25, No. 18, 09.2009, p. 2348-2354.

Research output: Contribution to journal › Article › Scientific › peer-review

**Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning.** / Larjo, Antti; Lähdesmäki, Harri.

In: *Eurasip Journal on Bioinformatics and Systems Biology*, Vol. 2015, No. 1, 6, 27.12.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**Performance of Variable Partial Factor approach in a slope design.** / Knuuti, Mika; Länsivaara, Tim.

13th International Conference on Applications of Statistics and Probability in Civil Engineering(ICASP13), Seoul, South Korea, May 26-30, 2019. 2019.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review