

**A comparison between joint regression analysis and the AMMI model: A case study with barley**

Pereira, D. G., Rodrigues, P. C., Mejza, S. & Mexia, J. T., Feb 2012, In : JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION. 82, 2, p. 193-207 15 p.

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

**Ageing first passage time density in continuous time random walks and quenched energy landscapes**

Krüsemann, H., Godec, A. & Metzler, R., 17 Jul 2015, In : Journal of Physics A: Mathematical and Theoretical. 48, 28, 285001.

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

**Aging scaled Brownian motion**

Safdari, H., Chechkin, A. V., Jafari, G. R. & Metzler, R., 7 Apr 2015, In : Physical Review E. 91, 4, 042107.

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

**A robust AMMI model for the analysis of genotype-by-environment data**

Rodrigues, P. C., Monteiro, A. & Lourenço, V. M., 1 Jul 2015, In : Bioinformatics. 32, 1, p. 58-66 9 p.

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, G. H. M., Auvinen, A., Yen, A. M. F., Hakama, M., Walter, S. D. & Chen, H. H., Jan 2012, In : Biometrical Journal. 54, 1, p. 20-44 25 p.

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, G., Zhang, B., Bova, G. S., Xu, J., Shih, I. M. & Wang, Y., Jun 2011, In : Bioinformatics. 27, 11, p. 1473-1480 8 p., btr183.

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

**Characterizing rate limiting steps in transcription from RNA production times in live cells**

Häkkinen, A. & Ribeiro, A. S., 1 May 2016, In : Bioinformatics. 32, 9, p. 1346-1352 7 p.

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, A., Campbell, C., Brooks, E., Genshaft, A., Shajahan, S., Ittman, M., Bova, G. S., Melamed, J., Holcomb, I., Schneider, R. J. & Ostrer, H., 2012, In : JOURNAL OF PROBABILITY AND STATISTICS. 873570.

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

**Comparative analysis of tissue reconstruction algorithms for 3D histology**

Kartasalo, K., Latonen, L., Vihinen, J., Visakorpi, T., Nykter, M. & Ruusuvoori, P., 1 Sep 2018, In : Bioinformatics. 34, 17, p. 3013-3021 9 p.

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

**Conformational properties of complex polymers: Rosette versus star-like structures**

Blavatska, V. & Metzler, R., 7 Apr 2015, In : Journal of Physics A: Mathematical and Theoretical. 48, 13, 135001.

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

**Diffusion through thin membranes: Modeling across scales**

Aho, V., Mattila, K., Kühn, T., Kekäläinen, P., Pulkkinen, O., Minussi, R. B., Vihinen-Ranta, M. & Timonen, J., 12 Apr 2016, In : Physical Review E. 93, 4, 043309.

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., 4 Mar 2011, In : Physical Review E. 83, 3, 031901.

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

**Dynamics of intracranial electroencephalographic recordings from epilepsy patients using univariate and bivariate recurrence networks**

Subramaniam, N. P. & Hyttinen, J., 27 Feb 2015, In : Physical Review E. 91, 2, 022927.

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, A. G. & Metzler, R., 15 May 2015, In : Journal of Statistical Mechanics: Theory and Experiment. 2015, 5, P05010.

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**Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data**

Häkkinen, A. & Ribeiro, A. S., 1 Jan 2015, In : Bioinformatics. 31, 1, p. 69-75 7 p.

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

**Exploratory analysis of spatiotemporal patterns of cellular automata by clustering compressibility**

Emmert-Streib, F., 8 Feb 2010, In : Physical Review E. 81, 2, 026103.

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

**Fault tolerance of information processing in gene networks**

Emmert-Streib, F. & Dehmer, M., 15 Feb 2009, In : Physica A: Statistical Mechanics and Its Applications. 388, 4, p. 541-548 8 p.

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, M., Schneider, M., Baldauf, C. & Blum, V., 16 Feb 2016, In : Scientific Data. 3, 160009.

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

**Forecasting mortality rate by singular spectrum analysis**

Mahmoudvand, R., Alehosseini, F. & Rodrigues, P. C., 1 Nov 2015, In : REVSTAT STATISTICAL JOURNAL. 13, 3, p. 193-206 14 p.

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**Generative modeling for maximizing precision and recall in information visualization**

Peltonen, J. & Kaski, S., 2011, In : Journal of Machine Learning Research. 15, p. 579-587 9 p.

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., Dec 2012, In : Bioinformatics. 28, 23, p. 3073-3080 8 p.

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

**Gene Sets Net Correlations Analysis (GSNCA): A multivariate differential coexpression test for gene sets**

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**Hermitian one-particle density matrix through a semiclassical gradient expansion**

Bencheikh, K. & Räsänen, E., 9 Dec 2015, In : Journal of Physics A: Mathematical and Theoretical. 49, 1, 015205.

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., 4 Oct 2018, In : Physical Review E. 98, 4, 13 p., 043302.

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

#### **Information retrieval perspective to meta-visualization**

Peltonen, J. & Lin, Z., 2013, In : Journal of Machine Learning Research. 29, p. 165-180 16 p.

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., 1 Jun 2016, In : Computational Statistics. 31, 2, p. 545-557 13 p.

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#### **Investigation of an entropic stabilizer for the lattice-Boltzmann method**

Mattila, K. K., Hegele, L. A. & Philippi, P. C., 19 Jun 2015, In : Physical Review E. 91, 6, 063010.

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#### **Majorization-minimization for manifold embedding**

Yang, Z., Peltonen, J. & Kaski, S., 2015, In : Journal of Machine Learning Research. 38, p. 1088-1097 10 p.

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

#### **NetBioV: An R package for visualizing large network data in biology and medicine**

Tripathi, S., Dehmer, M. & Emmert-Streib, F., 2 Apr 2014, In : Bioinformatics. 30, 19, p. 2834-2836 3 p.

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#### **Nonlinear continuous-wave optical propagation in nematic liquid crystals: Interplay between reorientational and thermal effects**

Alberucci, A., Laudyn, U. A., Piccardi, A., Kwasny, M., Klus, B., Karpierz, M. A. & Assanto, G., 11 Jul 2017, In : Physical Review E. 96, 1, 012703.

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#### **Optimization and universality of Brownian search in a basic model of quenched heterogeneous media**

Godec, A. & Metzler, R., 21 May 2015, In : Physical Review E. 91, 5, 052134.

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, L., Jisha, C. P., Alberucci, A. & Kuriakose, V. C., 19 Aug 2015, In : Physical Review E. 92, 2, 12 p., 022914.

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

#### **Quantifying the non-ergodicity of scaled Brownian motion**

Safdari, H., Cherstvy, A. G., Chechkin, A. V., Thiel, F., Sokolov, I. M. & Metzler, R., 18 Sep 2015, In : Journal of Physics A: Mathematical and Theoretical. 48, 37, 375002.

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

#### **Reorientational versus Kerr dark and gray solitary waves using modulation theory**

Assanto, G., Marchant, T. R., Minzoni, A. A. & Smyth, N. F., 9 Dec 2011, In : Physical Review E. 84, 6, 066602.

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

#### **Revealing differences in gene network inference algorithms on the network level by ensemble methods**

Altay, G. & Emmert-Streib, F., 25 May 2010, In : Bioinformatics. 26, 14, p. 1738-1744 7 p., btq259.

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

#### **SamExploreR: Exploring reproducibility and robustness of RNA-seq results based on SAM files**

Stupnikov, A., Tripathi, S., De Matos Simoes, R., McArt, D., Salto-Tellez, M., Glazko, G., Dehmer, M. & Emmert-Streib, F., 1 Nov 2016, In : Bioinformatics. 32, 21, p. 3345-3347 3 p.

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

**SCIP: a single-cell image processor toolbox**

Martins, L., Neeli-Venkata, R., Oliveira, S. M. D., Häkkinen, A., Ribeiro, A. S. & Fonseca, J. M., 15 Dec 2018, In : *Bioinformatics*. 34, 24, p. 4318-4320 3 p.

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, V. V., Chechkin, A. V., Klages, R. & Metzler, R., 8 Sep 2016, In : *Journal of Physics A: Mathematical and Theoretical*. 49, 39, 394002.

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

**Signal focusing through active transport**

Godec, A. & Metzler, R., 2 Jul 2015, In : *Physical Review E*. 92, 1, 6 p., 010701.

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

**Structured orthogonal families of one and two strata prime basis factorial models**

Rodrigues, P. C., Moreira, E. E., Jesus, V. M. & Mexia, J. T., 2014, In : *Statistical Papers*. 55, 3, p. 603-614 12 p.

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

**Unite and conquer: Univariate and multivariate approaches for finding differentially expressed gene sets**

Glazko, G. V. & Emmert-Streib, F., Sep 2009, In : *Bioinformatics*. 25, 18, p. 2348-2354 7 p.

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**Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning**

Larjo, A. & Lähdesmäki, H., 27 Dec 2015, In : *Eurasip Journal on Bioinformatics and Systems Biology*. 2015, 1, 6.

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

**Performance of Variable Partial Factor approach in a slope design**

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

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