Publications

John Edwards

January 20, 2020

References

- [1] Daniel Marsden and John Edwards. Exact Generalized Voronoi Diagram computation using a sweepline algorithm. In *Symposium on Geometric Modeling and Processing*, in review.
- [2] DeWayne Derryberry, Ken Aho, John Edwards, and Teri Peterson. A Greedy Algorithm for Model Selection in a First Course in Regression. *Journal of Statistics Education*, in review.
- [3] Christopher Hartwell, Tyler Orr, and John Edwards. The Effect of Online Application Efficiency on Applicant Attrition. *International Journal of Selection and Assessment*, 2020.
- [4] John Edwards, Juho Leinonen, and Arto Hellas. A Study of Keystroke Data in Two Contexts: Written Language and Programming Language Influence Predictability of Learning Outcomes. In ACM Technical Symposium on Computing Science Education. ACM, 2020.
- [5] Boyd F Edwards, Bo Johnson, and John M Edwards. Periodic bouncing modes for two uniformly magnetized spheres I: Trajectories. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, 2020.
- [6] Boyd F Edwards, Bo Johnson, and John M Edwards. Periodic bouncing modes for two uniformly magnetized spheres II: Scaling. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, 2020.
- [7] John Edwards, Erika Fulton, Jonathan Holmes, Joseph Valentin, David Beard, and Kevin Parker. Separation of syntax and problem solving in Introductory Computer Programming. In *IEEE International Conference* on Frontiers in Education. IEEE, 2018.
- [8] Lloyd Griffel, Donna Delparte, and John Edwards. A machine learning approach using spectral signatures to detect potato plants infected with Potato Virus Y. *Precision Agriculture*, 2018.

- [9] DeWayne Derryberry, Ken Aho, John Edwards, and Teri Peterson. Model selection and regression t-statistics. *The American Statistician*, 0(0):1–3, 2018.
- [10] Sidharth Kumar, Duong Hoang, Steve Petruzza, Valerio Pascucci, and John Edwards. Reducing network congestion and synchronization overhead during data aggregation when writing hierarchical data. In *IEEE International* Conference on High Performance Computing, Data, and Analytics. IEEE, 2017.
- [11] Nathan Morrical and John Edwards. Parallel quadtree construction on collections of objects. *Computers and Graphics*, 66:162–168, 2017.
- [12] Boyd F Edwards and John M Edwards. Periodic nonlinear sliding modes for two uniformly magnetized spheres. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, 27(5):053107, 2017.
- [13] Boyd F Edwards and John M Edwards. Dynamical interactions between two uniformly magnetized spheres. European Journal of Physics, 38(1):015205, 2016.
- [14] Xin Tong, John Edwards, Chun-Ming Chen, Han-Wei Shen, Chris R Johnson, and Pak Chung Wong. View-dependent streamline deformation and exploration. *IEEE transactions on visualization and computer graphics*, 22(7):1788–1801, 2016.
- [15] John Edwards, Sidharth Kumar, and Valerio Pascucci. Big data from scientific simulations. In L. Grandinetti, G.R. Joubert, M. Kunze, and V. Pascucci, editors, Big Data and High Performance Computing, pages 32–46. IOS Press, Amsterdam, Berlin, Tokyo, Washington, DC, 2015.
- [16] John Edwards, Eric Daniel, Valerio Pascucci, and Chandrajit Bajaj. Approximating the Generalized Voronoi Diagram of closely spaced objects. *Computer Graphics Forum*, 34(2):299–309, 2015.
- [17] Sidharth Kumar, John Edwards, Peer-Timo Bremer, Aaron Knoll, Cameron Christensen, Venkatram Vishwanath, Philip Carns, John Schmidt, Valerio Pascucci, et al. Efficient I/O and storage of adaptiveresolution data. In High Performance Computing, Networking, Storage and Analysis, SC14: International Conference for, pages 413–423. IEEE, 2014.
- [18] John Edwards, Eric Daniel, Justin Kinney, Tom Bartol, Terrence Sejnowski, Daniel Johnston, Kristen Harris, and Chandrajit Bajaj. Vol-RoverN: Enhancing surface and volumetric reconstruction for realistic dynamical simulation of cellular and subcellular function. *Neuroinformatics*, 12(2):277–289, 2014.

- [19] John Edwards, Wenping Wang, and Chandrajit Bajaj. Surface segmentation for improved remeshing. In *Proceedings of the 21st International Meshing Roundtable*, pages 403–418. Springer, 2013.
- [20] John Edwards and Chandrajit Bajaj. Topologically correct reconstruction of tortuous contour forests. *Computer-Aided Design*, 43(10):1296–1306, 2011.
- [21] Joel Alberts, John Edwards, Josh Johnston, and Jeff Ferrin. 3D visualization for improved manipulation and mobility in EOD and combat engineering applications. In *SPIE Defense, Security, and Sensing*, page 43. International Society for Optics and Photonics, 2009.