

The following publications resulted from class projects in CS/CSYS/BIOL 352, Evolutionary Computation.

Hinckley, D.W. Jr., Hitt, D.L. and Eppstein, M.J., “Evolutionary Optimization of Satellite Formation Topology Over a Region of Interest”, *AIAA SPACE 2014*, August 2014, accepted.

Hinckley, D.W. Jr., Zieba, K., Hitt, D.L., and Eppstein, M.J. “Evolved Spacecraft Trajectories for Low Earth Orbit”, *Proceedings of the 2014 Genetic and Evolutionary Computation Conference (GECCO)*, 1127-1134, July 2014. [\[pdf\]](#)

Garcia-Bernardo, J. and Eppstein, M.J., “Evolving Small GRNs with a Top-Down Approach”, *Proceedings Companion of the 2014 Genetic and Evolutionary Computation Conference (GECCO)*, pp. 41-42, July 2014. [\[pdf\]](#)

Bliss, C. A., Frank, M. R., Danforth, C. M., & Dodds, P. S. "An evolutionary algorithm approach to link prediction in dynamic social networks." *Journal of Computational Science*, in press (available online DOI: 10.1016/j.jocs.2014.01.003), 2014.

Manukyan, N., Eppstein, M.J., Horbar, J.D., Leahy, K.A., Kenny, M.J., Mukherjee, S., and Rizzo, D.M. “Exploratory Analysis in Time-Varying data sets: a Healthcare Network Application”, *International Journal of Advanced Computer Science*, 3(7), 2013. [\[pdf\]](#)

Krupa, J.S., Chatterjee, S., Eldridge, E., Rizzo, D.M., and Eppstein, M.J. “Evolutionary Feature Selection for Classification: A Plug-In Hybrid Vehicle Adoption Application”, *Proceedings of the 2012 Genetic and Evolutionary Computation Conference (GECCO)*, pp. 1111-1118, 2012. [\[pdf\]](#)

Manukyan, N., Eppstein, M.J., Horbar, J.D., Leahy, K.A., Kenny, M.J., Mukherjee, S., and Rizzo, D.M. “Evolutionary Mining for Multivariate Associations in Large Time-Varying data sets: a Healthcare Network Application”, *Proceedings Companion of the Genetic and Evolutionary Computation Conference (GECCO)*, pp. 1547-1548, 2012. [\[pdf\]](#)

Mukherjee, S., and Eppstein, M.J. “Differential Evolution of Constants in Genetic Programming Improves Efficacy and Bloat”, late breaking paper, *Proceedings Companion of the Genetic and Evolutionary Computation Conference (GECCO)*, pp. 625-626, 2012. [\[pdf\]](#)

DeHaas, D., Craig, J., Rickert, C., Haake, P., Stor, K., Eppstein, M.J. "Feature Selection and Classification in Noisy Epistatic Problems using a Hybrid Evolutionary Approach", *Proceedings Companion of the Genetic and Evolutionary Computation Conference (GECCO)*, 2007.

J.L. Payne and M.J. Eppstein, “A Hybrid Genetic Algorithm with Pattern Search for finding Heavy Atoms in Protein Crystals”, *Genetic and Evolutionary Computation Conference (GECCO) 2005*, Part 1, Eds. H-G Bayer *et al.*, pp. 377-384, 2005. (Nominated for a best-paper

award). [\[pdf\]](#)

Eppstein, M.J. and Hoffmann, J.P. “Crystallographic Case Study in an Interdisciplinary Evolutionary Computation Course”, *Proc. Companion of the Genetic and Evolutionary Computation Conference (GECCO)*, 2005.