

Pádraig Cunningham, UCD

Full list of publications

Journals

1. DiFranco, M.D., O'Hurley, G., Kay, E.W., Watson, R.W.G., Cunningham, P., (2011) 'Ensemble based methodology for whole-slide prostate cancer probability mapping'. *Computerized Medical Imaging and Graphics*, in press.
2. Dineen, D., Schröder, M., Higgins, D., Cunningham, P., Ensemble approach combining multiple methods improves human transcription start site prediction, *BMC Genomics*, **11**:677, doi:10.1186/1471-2164-11-677
3. Freyne, J., Coyle, L., Smyth, B., Cunningham, P., (2010) A Quantitative Evaluation of the Relative Status of Journal and Conference Publications in Computer Science, *Communications of the ACM*, Vol. 53, No. 11, pp124-132.
4. Ryan, C., Greene, D., Cagney, G., Cunningham, P., (2010) Missing value imputation for epistatic MAPs, *BMC Bioinformatics*, **11**:197, doi:10.1186/1471-2105-11-197
5. Greene, D., Freyne, J., Smyth, B., Cunningham, P., (2010) An Analysis of Current Trends in CBR Research Using Multi-View Clustering, *AI Magazine*, Vol. 31, No. 2, pp45-62, Summer 2010.
6. Cunningham, P., (2009) A Taxonomy of Similarity Mechanisms for Case-Based Reasoning, *IEEE Transactions on Knowledge and Data Engineering*, Vol. 21, No. 11, pp. 1532-1543.
7. Brew, A., Cunningham, P., (2009) Combining Cohort and UBM Models in Open Set Speaker Detection, *Multimedia Tools and Applications*, Vol. 48, No. 1, pp141-159, doi:10.1007/s11042-009-0381-x.
8. Dineen, D., Wilm, A., Cunningham, P., Higgins, D., (2009) High DNA melting temperature predicts transcription start site location in human and mouse, *Nucleic Acids Research*, Vol. 37, No. 22 pp7360-7367.
9. Narasimhamurthy, A., Greene, D., Hurley, N., Cunningham, P., (2009) Partitioning Large Networks Without Breaking Communities, *Knowledge and Information Systems*, doi: 10.1007/s10115-009-0251-x
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12. Bryan, K., Cunningham, P., (2008) Extending Biclust Analysis to Annotate Unclassified ORFs and Predict Novel Functional Modules via Expression Data, *BMC Genomics*, Vol. 9, (Suppl 2):S20, doi:10.1186/1471-2164-9-S2-S20
13. Nugent, C., Doyle, D., Cunningham, P., (2009) Gaining Insight through Case-Based Explanation, *Journal of Intelligent Information Systems*, Vol. 32, No. 3, pp267-295 doi: 10.1007/s10844-008-0069-0
14. Walsh, P., Doyle, D., McQuillen, K.K., Bigler, J., Thompson, C., Lin, E., Cunningham, P., (2008) Comparison of the Evaluations of a Case-Based Reasoning Decision Support Tool by Expert Reviewers with those of End Users, *Western*

Journal of Emergency Medicine Vol. 9: No. 1, Article 44. <http://repositories.cdlib.org/uciem/westjem/vol9/iss1/art44>

15. Tsymbal A., Pechenizkiy M., Cunningham P., Purronen, S., (2008) Dynamic Integration of Classifiers for Handling Concept Drift, *Information Fusion*, Vol. 9, No. 1, pp56-68.
16. Villalba, S., Cunningham, P., (2007) An evaluation of dimension reduction techniques for one-class classification. *Artificial Intelligence Review*, Vol. 27, No. 4, pp 273-294, doi: 10.1007/s10462-008-9082-5
17. Brew, A., Grimaldi, M.,Cunningham, P., (2007) An evaluation of one-class classification techniques for speaker verification, *Artificial Intelligence Review*, Vol. 27, No. 4, pp295-307, doi: 10.1007/s10462-008-9071-8
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22. Grimaldi, M., Cunningham, P., Kokaram, A., (2006) Discrete wavelet packet transform and ensembles of lazy and eager learners for music genre classification, *Multimedia Systems*, Vol. 11, No. 5, pp422-437, DOI 10.1007/s00530-006-0027-z.
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32. Walsh, P., Cunningham, P., Rothenberg, S. J., O'Doherty, S., Hoey, H., Healy, R., (2004) An artificial neural network ensemble to predict disposition and length of stay in children presenting with bronchiolitis. *European Journal of Emergency Medicine*. 11(5):259-264, October 2004.
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41. Smyth, B., Keane, M., & Cunningham, P., (2001) Hierarchical Case-Based Reasoning: Integrating Case-Based and Decompositional Problem-Solving Techniques for Plant-Control Software Design, *IEEE Transactions on Knowledge and Data Engineering*, pp793-812, Vol. 13, No. 5.
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49. Cunningham, P., Smyth, B., Bonzano, A., (1998) An incremental retrieval mechanism for case-based electronic fault diagnosis, *Knowledge-Based Systems* (11)3-4, pp. 239-248
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57. Greene, D., Cunningham, P. (2010) Spectral Co-Clustering for Dynamic Bipartite Graphs *Dynamic Networks and Knowledge Discovery (DYNAK'10) at ECML'10*
58. Wu, G., Greene, D., Smyth, B., Cunningham, P., (2010) Distortion as a validation criterion in the identification of suspicious reviews . In: P. Melville, J. Leskovec, F. Provost eds. *Workshop on Social Media Analytics (SOMA'10)*
59. Wu, G., Greene, D., Cunningham, P., (2010) Merging multiple criteria to identify suspicious reviews *RecSys '10: Proceedings of the fourth ACM conference on Recommender systems (Best Short Paper award)* X. Amatriain, M. Torrens, P. Resnick, M. Zanker (Eds) , pp.241-244
60. Foley, K., Greene, D., Cunningham, P., (2010) Optimizing Conflicting Objectives in NMF Using Pareto Simulated Annealing *21st Irish Conference on Artificial Intelligence*

and Cognitive Science (AICS'10) - Best Paper Award

61. Greene, D., Doyle, D., Cunningham, P., (2010) Tracking the Evolution of Communities in Dynamic Social Networks, *2010 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2010)*, August, 2010, Odense, Denmark.
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