

Recent Publications by Vishal Jain

Journals/Lecture Notes

Kasabov N., **Jain, V.**, Benuskova, L., (2007). Integrating Evolving Brain-Genes Ontology and Connectionist-based System for Modeling and Knowledge Discovery. *Neural Networks (in press)*. doi:10.1016/j.physletb.2003.10.071

Chan, S. H., Havukkala, I., **Jain, V.**, Hu, Y. and Kasabov, N. (2007). Soft Computing Methods to predict Gene Regulatory Networks: An Integrative approach on Time-Series Gene Expression Data. *Applied Soft Computing Journal, (in press)*, doi:10.1016/j.physletb.2003.10.071

Kasabov N, **Jain V**, Gottgroy P, Benuskova L, Joseph F (2007). Brain gene ontology and simulation system (BGOS) for a better understanding of the brain. *Cybernetic and Systems: An international Journal*. June 2007, Vol. 38 (5), pp 495-508.

Benuskova, L., **Jain, V.**, Wysoski, S. G. and Kasabov, N. (2006). Computational Neurogenetic Modelling: A pathway to new discoveries in Genetic Neuroscience. *Intl. Journal of Neural Systems*, ISSN 0129-0657, Vol. 16 (3), pp 215-226

Havukkala, I., Benuskova, L., Pang, S., **Jain, V.**, Kroon, R., and Kasabov, N. (2006). Image and Fractal Information Processing for Large-Scale Chemoinformatics, Genomics Analyses and Pattern Discovery. Pattern Recognition in Bioinformatics, *Lecture Notes in Computer Science (LNCS)*, ISBN 3-540-37446-9, Vol. 4146, pp. 163-173

Havukkala, I., Pang, S., **Jain, V.**, and Kasabov, N. (2005). Novel Method for Classifying MicroRNAs by Gabor Filter Features from 2D Structure Bitmap Images. *Journal of Theoretical and Computational Nanoscience*, Vol. 2 (4), pp 506-513.

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Kasabov N, **Jain V**, Benuskova L, Gottgroy P, Joseph F (2008). Integration of Brain-Genes Ontology and Simulation Systems for Learning, Modelling and Discovery, *Computational Intelligence in Medical Informatics*, Springer, ISBN: 978-3-540-75766-5, Vol. 85, chapter 11, pp 221-234.

Kasabov, N., Song, Q., Gottgroy, P., Benuskova, L., Havukkala, I., **Jain, V.**, Tjahjana, A., Verma, A., Hu, Y. Pears, R., Rush, E., MacDonell, S. (2008). Integrating Local and Personalised Modelling with Global Ontology Knowledge Bases for Biomedical and Bioinformatics Decision Support, *Submitted as book chapter in Springer-Series*.

Kasabov N, **Jain V**, Gottgroy P, Benuskova L, Wysoski S, Joseph F (2007). Evolving Brain-Gene Ontology System (EBGOS): Towards Integrating Bioinformatics and Neuroinformatics Data to Facilitate Discoveries, *Proceedings of International Joint Conference on Neural Networks (IJCNN)*, Orlando, Florida, USA, ISBN: 1-4244-1380-X, pp 1054.

Jain V, Kasabov N, Gottgroy P, Benuskova L, Joseph F (2007). Brain Gene Ontology (BGO): Tool to facilitate Education and Research in Neuroinformatics area. *Proceedings of the Fifth New Zealand Computer Science Research Student Conference (NZCSRSC)*, April 10–13th at University of Waikato, Hamilton. pp 262-265.

Kasabov, N., **Jain, V.**, Gottgroy, P., Benuskova, L. and Joseph, F. (2006). Brain-Gene Ontology: Integrating Bioinformatics and Neuroinformatics Data, Information and Knowledge to Enable Discoveries, *IEEE*, ISBN: 0-7695-2662-4, pp. 13

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Miscellaneous (Workshops, Technical Reports, Extended abstracts and Abstracts)

Jain, V., and Kasabov, N. (2006). Understanding Gene Regulation: Problems and Approaches. *Proceedings of 6th International Conference on Hybrid Intelligent Systems (HIS'06) and 4th Conference on Neuro-Computing and Evolving Intelligence (NCEI'06)*, pp 63

Jain, V., Gottgroy, P., Benuskova, L., Wysoski, S. G., Macdonell, S., and Kasabov N. (2006). Sequence Analysis and Evolving Ontologies that facilitate new discoveries for Computational Neurogenetic Modelling: A case study on brain gene data, *Proceedings of the 1st Korean-New Zealand Joint Workshop on Advance of Computational Intelligence Methods and Applications*, Vol. 1, pp 41-44.

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