UNIVERSITY OF SOUTH FLORIDA

Defense of a Doctoral Dissertation

Computational Methods for Biomarker Identification in Complex Disease
by
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For the Ph.D. degree in Computer Science & Engineering

One of the challenging problems in systems biology with high-throughput measurements is discovering the important components involved in development and progression of complex diseases, which may serve as biomarkers for accurate predictive modeling and as targets for therapeutic purposes. In this dissertation we propose novel computational methods for biomarker identification to take into account non-linearity and heterogeneity of complex diseases.

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