A Surprising Story of Data-Geometry in Winemaking.

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Abstract

The winemaking process goes through four phases: from water-status, juice, pre-bottled wine to bottled wine. The four phases are manifested through four bipartite networks with a common media-node space against four different phase-specific feature-node spaces. A new computing paradigm, Data Mechanics, is applied on each bipartite network to extract a coupling geometry that characterizes interactions between the media-nodes and the feature-nodes through multiscale blocks. We demonstrate a surprising series of patterns discovered along the serial coupling geometries. We then compute potential causal and predictive patterns for linking two bipartite networks when one assumes the role of covariate, and the other of response. At the end we discuss: how to determine who may be a real expert in wine-tasting?

The Johns Hopkins Bloomberg School of Public Health  
Department of Biostatistics, Monday, September 15, 2014, 12:15-1:15  
Room W3008, School of Public Health (Refreshments: 12:00-12:15)

Note: Taking photos during the seminar is prohibited

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