

“Theory and Practice of Evidence Measurement in Statistical Genetics: The PPL Framework in its Current Incarnation”

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Abstract:

Over the past decade my group has been working on the measurement of evidence in statistical genetic settings, based on a general likelihood framework. Themes of this work have included development of outcome measures that behave properly as evidence metrics, emphasis on a unified framework under which the scale of outcome measures is maintained across data structures and models, and investment in software engineering in support of this framework. In this talk I will review the historical development of the "PPL" framework from its beginnings through our current high-performance software implementation in the program KELVIN.