



Hamilton Institute

Feasible Depth: A Computable Characterization of Useful Information

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Abstract

Charles Bennett introduced logical depth to formalize computationally the difference between complex and non-complex (trivial or random) structures (binary sequences). Intuitively, a deep object is one for which the more time given, the more patterns can be discovered in the object.

Unfortunately, being based on Kolmogorov complexity, Bennett's logical depth is not computable. We'll talk about recent work on feasible notions of depth, that yield a computable version of Bennett's notion, and describe possible applications in genomics and data-mining.

Venue: Seminar Room, Hamilton Institute, Rye Hall,
NUI Maynooth

Time: 2.00 - 3.00pm (followed by tea/coffee)

Travel directions are available at www.hamilton.ie



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