

Introduction to the Philosophical Foundations of Imprecise Probabilities

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In this tutorial we will introduce several topics in the foundations of imprecise probabilities through a review of key historical figures, including John Maynard Keynes, B.O. Koopman, and I.J. Good, Henry Kyburg, Terrence Fine and Isaac Levi, and their reactions to the subjectivist-rationalist tradition associated with Ramsey, de Finetti, and Savage, and the later devel-

opments associated with Peter Williams and Peter Walley. We will end with a short overview of Epistemic Decision Theory, which aims to reinterpret the machinery of strictly proper scoring rules as measures of “epistemic accuracy,” and the issues which arise from impossibility theorems which indicate that there are no strictly IP proper scoring rules.