

Second Order Inductive Logic and Wilmers' Principle

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We extend the framework of Inductive Logic to Second Order languages and introduce Wilmers' Principle, a rational principle for probability functions on Second Order languages. We derive a representation theorem for functions satisfying this principle and investigate its relationship to the first order principles of Regularity and Super Regularity.

Key words: Universal Certainty, Second Order Logic, Inductive Logic, Probability Logic, Uncertain Reasoning.

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