

Basic Normalization

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The Normalization Theorem (O'Donnell 1977) states that for every left-normal orthogonal rewrite system, the leftmost outermost strategy reduces any term to the normal form if it exists. Although the theorem ensures the normalization property of important systems like Combinatory Logic, the left-normality condition rules out many functional programs. We revisit the problem to seek a solution for normalization of the leftmost outermost strategy. This talk is based on joint work with Aart Middeldorp and Georg Moser.