

BLAST 2011

June 1-5, 2011

University of Kansas

Lawrence, KS, USA

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Connected and Monotone Functions

by

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A function $f: X \rightarrow Y$ is called connected if $f(C)$ is connected for each connected subset C of X ; and f is called monotone if the inverse image of C is connected for each connected subset C of Y . In this paper, we study some properties of connected and monotone functions as well as the relation between them. Conditions on domain and/or range implying continuity of connected and/or monotone functions are obtained. Also, some results for connected functions in terms of their levels are obtained.