

Topological Properties of a New Graph Topology

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Abstract: In [10, 11, 12] a new graph topology τ was introduced which is useful in applications to differential equations. In this paper we study topological properties of τ and relations between τ and other known topologies. For example, we find conditions under which τ coincides with Back's generalized compact-open topology successfully used for convergence of utility functions [2] and for convergence of dynamic programming models [19].

Keywords: Kuratowski convergence, τ -convergence, Back's convergence

Classification (MSC2000): 54C35, 54B20, 34K05

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