

ON MULTIFUNCTION SPACE $\theta L(X)$

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Abstract. In 1982, Christensen [1] studied upper semicontinuous functions and compact valued set-valued mappings. Following that we have introduced the notion of θ -upper (θ -lower) semicontinuous functions. In this paper our main interest of study is $\theta L(X)$, the collection of all θ -cusco maps from a Urysohn, H -closed space X to the space \mathbb{R} of real numbers. We first define the multifunction space $\theta L(X)$ and then prove an important embedding theorem.

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Key words. θ -cusco map, θ -locally bounded, θ -upper semicontinuous functions, θ -lower semicontinuous functions.

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