

A new class of fractional type set-valued functions

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ABSTRACT.

The so-called ratios of affine functions, introduced by Rothblum (1985) in the framework of finite-dimensional Euclidean spaces, represent a special class of fractional type vector-valued functions, which transform convex sets into convex sets. The aim of this paper is to show that a similar convexity preserving property holds within a new class of fractional type set-valued functions, acting between any real linear spaces.

Acknowledgements. This work was supported by a research fellowship STAR-UBB, granted by Babeş-Bolyai University, Cluj-Napoca. The author wish to thank his supervisor, professor Nicolae Popovici, for suggesting the definition of set-valued ratios of affine functions in order to generalize some results known in the literature for vector-valued functions.

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Received: 27.07.2018; In revised form: 21.12.2018; Accepted: 30.12.2018
2010 Mathematics Subject Classification. 54C60, 26B25.

Key words and phrases. *Affine set-valued function, ratio of affine functions, convexity preserving functions.*