

**Acta Universitatis Sapientiae**

**Mathematica**

Volume 16, Number 1, 2024

Sapientia Hungarian University of Transylvania  
Scientia Publishing House



## Contents

<i>A. Mester</i>	
Talenti's comparison theorem on Finsler manifolds with nonnegative Ricci curvature .....	1
<i>A. Alhevaz., M. Baghipur, H. A. Ganie, G.-X. Tian</i>	
On the spectral radius of $D_\alpha$ -matrix of a connected graph .....	23
<i>G. A. Anastassiou</i>	
Uniform approximation by smooth Picard multivariate singular integral operators revisited .....	42
<i>M. P. Borah, K. R. Singh, S. Pirzada</i>	
On the spectra of quasi join of graphs and families of integral graphs .....	59
<i>S. Z. H. Bukhari, I. Khan, A. Munir</i>	
On Hankel determinant problems of functions associated to the lemniscate of Bernoulli and involving conjugate points .....	75
<i>G. Călugăreanu</i>	
Unipotent similarity for matrices over commutative domains ...	86
<i>R. E. Castillo</i>	
On Fefferman's inequality. A simple proof .....	93
<i>Y.-L. Chou</i>	
Embedding Topological Manifolds into $L^p$ Spaces .....	98
<i>J. Ettayb</i>	
Characterization of spectral elements in non-archimedean Banach algebras .....	101

<i>F. Benaissa, A. Chouaf</i>	
<b>Asymptotic properties of a nonparametric conditional distribution function estimator in the local linear estimation for functional data via a functional single-index model .....</b>	<b>109</b>
<i>S. Jasrotia, U. P. Singh and K. Raj</i>	
<b>Applications of equi-statistical convergence and Korovkin-type theorem .....</b>	<b>136</b>
<i>I. Kaish, Md. M. Rahaman</i>	
<b>Uniqueness of an entire function sharing a small function with its linear differential polynomial with non-constant coefficients ...</b>	<b>152</b>
<i>M. Lakner, P. Petek, M. Škapin Rugelj</i>	
<b>Composition of continued fractions convergents to <math>\sqrt[3]{2}</math> .....</b>	<b>169</b>
<i>K. Mecheri</i>	
<b>The conditional quantile function in the single-index .....</b>	<b>179</b>
<i>F. Soltanzadeh, M. Hassani, M. E. Omidvar, R. Ali kamyabi Gol</i>	
<b>Some Equalities and Inequalities in 2-Inner product spaces ....</b>	<b>191</b>