International scientific conference

«Algebraic and geometric methods of analysis»

Book of abstracts

May 31 - June 5, 2017
Odessa
Ukraine

http://imath.kiev.ua/~topology/conf/agma2017/

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- General and algebraic topology
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A study for decision making problems by using interval soft sets

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The soft set theory, initiated by Russian researcher Molodtsov in 1999, is one of the branches of mathematics. The theory aims to describe phenomena and concepts of an ambiguous, vague, undefined and imprecise meaning. The soft set theory has a rich potential for applications in several directions, a few of which were demonstrated by Molodtsov in his first work [1]. After Molodtsov's work, many researcher concerned with soft sets and presented an application of soft sets in a decision making problem. Interval set theory and soft set theory are mathematical tools for dealing with uncertainty information. So Xiaohong Zhang [2] introduced the new notion of interval soft sets as a combination of interval set and soft set.

In this paper we study interval soft set theory for dealing with uncertainty information. By using the concepts of interval choice values, we apply the theory of interval soft sets to solve a soft max-min decision making for a multiple choose selection.

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Konovenko N., Lychagin V. *On projective classes of rational functions* **71**

Kozerenko S. *Orientations of trees and signed Markov graphs* **73**

Kuzmenko T. *Constructive description of G-monogenic mappings in the algebra of complex quaternions* **74**

Lyubashenko V. *Moyal and Rankin-Cohen deformations of algebras* **76**

Markitan V. *Fractal properties of sets associated with Markov representation of real numbers defined by a double stochastic matrix* **78**

Matsumoto K. *Warped product semi-slant submanifolds in locally conformal Kaehler manifolds* **79**

Mormul P. *Weak and strong nilpotentizability in the monster towers hosting flag distributions* **80**

Mukhamadiev F. G. *The local density and the local weak density of N^{φ}_{τ}-kernel of a topological space X and superextensions* **82**

Muradoglu Z., Gunduz Aras C. *A study for decision making problems by using interval soft sets* **84**

Muradov R. S. *Archimedean copula functions and their some algebraic properties with applications* **85**

Obikhod T. V. *BPS states of Fourfolds as candidates for Kaluza-Klein modes* **87**

Parasyuk I. O. *Landau-type inequalities for curves on Riemannian manifolds* **88**

Prislyak A., Prus A. *Morse-Smale flows on torus with hole* **90**

Reinov O. *On nuclear operators with trace $V = 1$ and $V^2 = 0$* **91**

Sabitov I. Kh. *Multiple roots of the volume polynomials for polyhedra* **92**

Samokhvalov S. *Theory of gravity in the affine frame* **93**

Shamolin M. V. *Integrable systems with dissipation on the tangent bundle of two-dimensional manifold* **94**

Turhan T., Ayyildiz N. *On geometry of spatial kinematics in Lorentzian space* **96**

Turhan T., Ayyildiz N. *A study on the integral invariants of a closed spacelike ruled surface* **97**

Vasilchenko A. N. *Dual modules over Steenrod algebra 2* **98**

Vlasenko I. *Topology of the basin of attraction of surface endomorphisms.* **100**

Voloshyna V. *About some properties of functions determined as transformations from W^n to W^m-representation* **101**

Vyhivska L. *On the problem of product of inner radii symmetric non-overlapping domains* **103**

Yildirim S., Ayyildiz N. *A Study on Rectifying Curves in Semi-Euclidean Spaces* **104**

Арсеньева О. Е., Кириченко В. Ф., Суровцева Е. В. *Эрмитова геометрия почти контактного метрического многообразия* **105**