

Oblasti vedeckovýskumnej činnosti

Teória reálnych funkcií a viachodnotová analýza

Výber z publikačnej činnosti

- [1] Matejdes M.: Sur les sélecteurs des multifonctions. *Math. Slovaca* 37(1987), 111-124.
- [2] Matejdes M.: Quelques remarques sur la quasi-continuité des multifonctions. *Math. Slovaca* 37 (1987), 267-271.
- [3] Matejdes M.: On the path derivatives. *Real Anal. Exchange* 13 (1987-88), 373-389.
- [4] Matejdes M.: Applications of multifunctions in the theory of differentiation and integration. VŠDS Žilina (1988), 30, pp. PhD Thesis.
- [5] Matejdes M.: The semi Borel classification of the extreme path derivatives. *Real Anal. Exchange* 15 (1989-90), 216-238.
- [6] Matejdes M.: Semicontinuity of maps which are limits of sequences of Baire continuous multivalued maps. *Mat. Vesník* 42 (1990), 217-220.
- [7] Matejdes M.: Path differentiation in the Borel setting. *Real Anal. Exchange* 16 (1990-91), 311-318.
- [8] Matejdes M.: On the cliquish, quasicontinuous and measurable selections. *Math. Bohemica* 116 (1991), 170-173.
- [9] Matejdes M.: The projective properties of the extreme path derivatives. *Math. Slovaca* 42 (1992), 451-464.
- [10] Matejdes M.: What is between continuity and the Baire measurability. *Rev. Roumaine Math. Pures Appl.* 37 (1992), 415-420.
- [11] Matejdes M.: Quasi-continuous and cliquish selections of multifunctions on product spaces. *Real Anal. Exchange* 18 (1992-93), 214-220.
- [12] Matejdes M.: On the selections of multifunctions. *Math. Bohemica* 118 (1993), 255-260.
- [13] Matejdes M.: Continuity of multifunctions. *Real Anal. Exchange* 19 (1993-94), 394-413.
- [14] Matejdes M.: On generalization of quasicontinuity of multifunctions. *Rev. Roumaine Math. Pures Appl.* 39 (1994), 223-228.
- [15] Matejdes M.: Cliquishness of multifunctions. *Tatra Mt. Mat. Publ.* 8 (1996), 217-220.
- [16] Matejdes M.: Continuity points of functions on product spaces. *Real. Anal. Exchange* 23 (1997-98), 275-280.
- [17] Matejdes M.: The dense representation of the continuous multifunctions. *Proceedings of the International Symposium on Mathematics and its Applications, Culcutta, (November 13-15,2002)*, 63-65.
- [18] Matejdes M.: Selection of multifunction with given values. *Acta Mathematica* 6 (2003), 79-82.
- [19] Matejdes M.: Multifunction methods. *Real Anal. Exchange, Summer Symposium Conference Report* 29 (2003), 99-102.
- [20] Matejdes M.: Graph quasi-continuity of the functions. *Acta Mathematica* 7 (2004), 29-32.
- [21] Matejdes M.: Selections of multifunctions. *Real Anal. Exchange, Summer Symposium Conference Report*, 28 (2004), 21-22.
- [22] Matejdes M.: Minimal multifunctions and the cluster sets. *Tatra Mt. Math. Publ.* 34 (2006), 71-76.
- [23] Matejdes M.: Minimality of multifunctions. *Real Anal. Exchange* 32(2) (2006/2007), 519-526.

- [24] Matejdes M.: Fragmentability and Cliquishness of Multifunctions. *Real Anal. Exchange*, 2007.
- [25] Matejdes M.: Cliquishness and cluster multifunctions. *NZ. J. Math.* 37 (2008), 33-42
- [26] Matejdes M.: Continuity properties of cluster multifunctions and closed graph theorems. *Tatra Mt. Math. Publ.* 40 (2008), 81-90.
- [27] Matejdes M.: Quasi continuous selections. *RAE Symposium, Chicago* (2008).
- [28] Matejdes M.: Quasi continuous selections of upper Baire continuous mappings. *Matematicki Vesnik*, 62 (2010), 69-76.
- [29] Jankech A.- Matejdes M.: Comparison of two unified continuity approaches, *Acta Math. Hungarica.* 128 (2010), 190-198.
- [30] Matejdes M.: Upper quasi continuous maps and quasi continuous selections. *Czech.Math. J.* 60 (135) (2010), 517–525.
- [31] Matejdes M.: Selection theorems and minimal mappings in a cluster setting. *Rocky Mountain J. Math.* 41, No. 3 (2011), 851-867.
- [32] Matejdes M.: Generalized Volterra Spaces. *Int. J. Pure and Appl. Math.*, 85(5) (2013), 955-963.
- [33] Matejdes M.: Characterization of Volterra Spaces. *Int. J. Pure and Appl. Math.*, 88(3) (2013), 437-442.
- [34] Hromada M.- Lukáš L.-Matejdes M.-Valouch J.-Nečesal L.-Richter R.-Kovařík F.: *The System and Approach to Critical Infrastructure Resilience Evaluation.* SPBI, Ostrava, 2014.
- [35] Matejdes M.: On classification of sets in cluster topological space. *Int. J. Pure and Appl. Math.*, Volume 105 (2) (2015), 269-280.
- [36] Matejdes M.: Soft topological questions and answers. *Int. J. Pure and Appl. Math.*, 104 (2) (2015), 237-247.
- [37] Matejdes M.: Soft topological space and topology on the Cartesian product. *Hacettepe J. Math. Statistics*, 45 (4) (2016), 1091-1100.
- [38] Matejdes M.: Topological and pointwise upper Kuratowski limits of a sequence of lower quasi-continuous multifunctions. *Filomat*, 30(10) (2016), 2631-2635.
- [39] Matejdes M.: Generalized nowhere dense sets in cluster topological setting. *International Journal of Pure and Applied Mathematics*, Vol. 109, no. 2 (2016), p. 459-467.
- [40] Matejdes M.: Graph and pointwise upper Kuratowski limits. *Colloquium Mathematicum* 147 (2017), 195-201.
- [41] Matejdes M.: Some remarks on soft separation axioms. *Int. J. Pure and Appl. Math.*, 16(1) (2017), 191-195.
- [42] Matejdes M.: On soft regularity. *Int. J. Pure and Appl. Math.*, 16(1) (2017), 197- 200.
- [43] Matejdes M.: Methodological remarks on soft topology. *Soft Computing* (2021) 25:4149–4156.
- [44] Matejdes, M.: Quasi-continuity of multifunctions on bitopological spaces. *European Journal of Mathematics* (2021) 7:390–395.
- [45] Matejdes M.: Soft homogeneity of soft topological sum. *Soft Computing* (2021) 25:4149–4156.
- [46] Matejdes M.: On Some Operations on Soft Topological Spaces. *Filomat* 35:5 (2021), 1693–1705.

Účasť na riešení projektov

- [1] Topologické štruktúry a priestory funkcií, APVV-20-0045, MÚ SAV Bratislava, 2021-2025, riešiteľ
- [2] Delenie a obrábanie dreva, KEGA, TU Zvolen, 2013-2015, riešiteľ.
- [3] Funkcionálne priestory, bornológie, hyperpriestory a topologické štruktúry, APVV, MÚ SAV Bratislava, 2011-2015, zodpovedný riešiteľ za TU Zvolen.
- [4] Research Center of transport telematics systems, Operačný program VaV, TU Zvolen, 2012-2014, riešiteľ
- [5] Výskum vplyvu technologických faktorov na kvantitatívne a kvalitatívne ukazovatele pri trieskovom delení drevných materiálov, VEGA, TU Zvolen, 2013-2015, riešiteľ.
- [6] Zvýšenie kapacity ľudských zdrojov pre transfer poznatkov výskumu a vývoja o produkcii a spracovaní biomasy do praxe, Operačný program Vzdelávanie, 2013-2015, TU Zvolen, riešiteľ.
- [7] Systém hodnocení odolnosti prvků a sítí vybraných oblastí kritické infrastruktúry, MO ČR, VG20112014067, 2012-2014, riešiteľ.