DIMENSION IN SOFT TOPOLOGICAL SPACE

Molodtsov Dmitriy Anatolievich
Senior researcher at Institution of Russian Academy of Sciences
Dorodnicyn Computing Centre of RAS
Russia, 119333, Moscow, 40 Vavilova str., CC RAS.

Received 07.04.2016, revised 15.04.2016.

The notion of dimension, based on family of coverings, is constructed for soft topological space. Some simplest properties of dimension are presented. Dimension of finite spaces and compact sets are investigated. Examples of calculation of the dimension are considered.

Keywords: soft topology, soft dimension of a set.

Nechetkie Sistemy i Myagkie Vychisleniya [Fuzzy Systems and Soft Computing], 2016, vol. 11, no. 1, pp. 5–18.

References

[1] Molodtsov D.A. Soft topological structures. *Nechetkie Sistemy i Myagkie Vychisleniya* [Fuzzy Systems and Soft Computing], 2015, vol. 10, no. 2, pp. 115-153. (in Russian)

[2] Aleksandrov P.S., Pasynkov B.A. *Vvedeniye v Teoriyu Razmernosti* [Introduction to the Theory of Dimension]. Moscow, Nauka Publ, 1973.

Bibliographic citation

Molodtsov D.A. Dimension in soft topological space. *Nechetkie Sistemy i Myagkie Vychisleniya* [Fuzzy Systems and Soft Computing], 2016, vol. 11, no. 1, pp. 5–18. (in Russian)