

FUZZY METRIC AND ANTIMETRIC STRUCTURES

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The paper introduces and studies the notion of fuzzy metric and antimetric spaces, based on the general concept of mathematical structure.

Keywords: fuzzy metric space, fuzzy antimetric space, fuzzy logic, t-norm.

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References

- [1] Novak V., Perfil'eva I., Mochkorzh I. *Matematicheskie printsipy nechetkoi logiki* [Mathematical principles of fuzzy logic]. Moscow, Fizmatlit publishing house, 2006. 352 p.
- [2] Kramosil J., Michalek J. Fuzzy metric and statistical metric spaces. *Kybernetika*, 1975, vol. 11, pp. 326–334.
- [3] George A., Veeramani P. On some results in fuzzy metric spaces. *Fuzzy Sets and Systems*, 1988, vol. 27, pp. 395–394.
- [4] Jebri I.H., Dutta H., Samanta T.K. Fuzzy anti-metric spaces. *International Journal of Applied Mathematics*, 2010, vol. 23, pp. 257–264.
- [5] Ionin V.K. Algebraic principles of building mathematical structures. *Transactions of the American Mathematical Society*, 1995, vol. 163, issue 2, pp. 117–124.

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