

FUZZY CONTINUOUS MAPS ON GROUPS

W.B.Vasantha Kandasamy and D. Meiyappan

This paper is a meeting place of fuzzy analysis and fuzzy group theory . We give a new definition of fuzzy continuous map or simply g-fuzzy continuous map. A function $f: (G_1, \tau_1) \rightarrow (G_2, \tau_2)$ is said to be a g-fuzzy homomorphism if it satisfies

- (i) f is one to one and onto
- (ii) both f and f^{-1} are g-fuzzy continuous maps.

We mainly prove. Let $f: (G_1, \tau_1) \rightarrow (G_2, \tau_2)$ be a g – fuzzy homomorphism. Then (G_1, τ_1) is a g-fuzzy Hausdorff space if and only if (G_2, τ_2) is a g-fuzzy Hausdorff space.

All Rights Reserved. This work is Copyright © W.B.Vasantha Kandasamy and D. Meiyappan, 2003. Mathematicians can use the above material for research purposes, but the work of the author(s) ***must*** be acknowledged. Violators of copyright, and those indulging in *plagiarism* and *intellectual theft* are liable for strict prosecution.