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C-Closed Sets in L-Fuzzy Topological Spaces and Some of its Applications

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 [Keywords](#)  
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**Abstract:** We introduce and study the notion of C-closed sets in L-fuzzy topological spaces. Then, C-convergence theory for nets and ideals is established in terms of C-closedness. Finally, we give a new concept of C-continuity on L-fuzzy topological space by means of L-fuzzy C-closedness and investigate some of its properties and its relationships with other L-fuzzy mappings introduced previously. Then we systematically study the characterizations of this notion with the aid of the C-convergence of L-fuzzy nets and L-fuzzy ideals.



**Key Words:** L-fuzzy topology,  $Q_\alpha$ -compactness, L-fuzzy C-closed set, L-fuzzy C-continuous mappings, L-fuzzy net, L-fuzzy ideal, C-convergence.

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