

## Fuzzy Ideal Topological Spaces

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**Abstract :** In this paper, it is introduced the notion of r-fuzzy ideal separation axioms  $T_i = 0; 1; 2$  based on a fuzzy ideal  $I$  on a fuzzy topological space  $(X; \tau)$ . An r-fuzzy ideal connectedness related to the fuzzy ideal  $I$  is introduced which has relations with a previous r-fuzzy fuzzy connectedness. An r-fuzzy ideal compactness related to  $I$  is introduced which has also relations with many other types of fuzzy compactness.

**Keywords :** fuzzy ideal, fuzzy separation axioms, fuzzy compactness, fuzzy connectedness

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