Abstract

In this thesis, we introduce the notion of "belongs to" relation ($\in_{\tilde{e}}$) between interval valued fuzzy point (IVF point) to an interval valued fuzzy set (IVF set) with respect to an interval $\tilde{e}$ and "quasi-coincident with" relation ($q_{(\tilde{e}, \tilde{k})}$) between interval valued fuzzy point to an interval valued fuzzy set with respect to intervals $\tilde{e}$, $\tilde{k}$ and combining both the concepts we define $(\tilde{e}, \tilde{k}; \in_{\tilde{e}}, \in_{\tilde{e}} \vee q_{(\tilde{e}, \tilde{k})})$-interval valued fuzzy ideals and $(\tilde{a}, \tilde{b}; \in_{\tilde{a}}, \in_{\tilde{a}} \vee q_{(\tilde{a}, \tilde{b})})$-interval valued fuzzy F-ideals in KU-algebras and investigated some of their related properties. Some characterizations of these generalized interval valued fuzzy F-ideal are derived.