

Abstract Submitted
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Physical Plithogenic Set FLORENTIN SMARANDACHE, Univ of New Mexico — Let U be a universe of discourse. A Plithogenic Set is a set P included in U , such that each element x in P is characterized by one or more attributes $\alpha_1, \alpha_2, \dots, \alpha_m$, and each attribute α_i has many values. The element x is characterized by all attributes' values: $V = \{v_1, v_2, \dots, v_n\}$. Each attributes value v in V has a corresponding *degree of appurtenance* $d(x, v)$ of the element x , to the set P , with respect to some given criteria. For each attribute α_i there is a *dominant (most important) attribute value*, and one computes the *contradiction degree* function between any attribute values v and its corresponding dominant attribute value v_D , denoted by $c(v_D, v)$. Plithogenic aggregation operators are further constructed for practical applications.

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