

HW #2

Information Granule: an information granule is a proposition that asserts a random variable, X , is a certain fuzzy / linguistic variable, Y .

Performance level: the performance level is the degree of truth of the proposition given by the information granule

for a discrete random variable: $PL = \sum_{i=1}^n \mu_{Y_i}(u) p_{X_i}(u)$

for a continuous random variable: $PL = \int_u \mu_Y(u) p_X(u) du$