Rec 2/30

Tuesday, August 30, 2016 7:53 AM

Inclusion-exclusion formula: Given Aljun, An ES, $P\left(\bigcup_{i=1}^{n}A_{i}\right) = \sum_{i=1}^{n}P(A_{i}) - \sum_{1 \leq i \leq j \leq n} P(A_{i} \cap A_{j}) + \sum_{1 \leq i < j < k \leq n} P(A_{i} \cap A_{j} \cap A_{k}) - \dots + (-1)^{n+1} P\left(\bigcap_{i=1}^{n}A_{i}\right)$