

Название

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Список вопросов, выносимых на зачёт (2017 год)

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[1]

Список литературы

[1] name. title. *J. Phys. Conf. Ser.*, 67:23, 2007.

Consider 2 random variables : c is the true class of the object, k is the number of assessors, who labeled the object as class 1.

$P(k = m|c = 1) = C_n^m q^{n-m}(1-q)^m$, i.e. there are m correct answers and $n - m$ wrong answers $P(k = m|c = 1) = C_n^m q^m(1-q)^{n-m}$, i.e. there are m wrong and $n - m$ correct answers. According to the Bayes theorem: $P(c|k) = P(k|c)P(c)/(\sum_{v \in \text{dom} P(c)} P(k|c = v)P(c = v))$ $P(c|k = m) = P(k = m|c)P(c)/(C_n^m q^{n-m}(1-q)^m p + C_n^m q^m(1-q)^{n-m}(1-p))$ $P(c = 1|k = m) = C_n^m q^{n-m}(1-q)^m p / (C_n^m q^{n-m}(1-q)^m p + C_n^m q^m(1-q)^{n-m}(1-p)) = q^{n-m}(1-q)^m p / (q^{n-m}(1-q)^m p + q^m(1-q)^{n-m}(1-p))$

[Something Linky](#)