

A Regression Framework for Learning Ranking Functions Using Relative Relevance Judgments

Zheng et al. SIRIG'07

- Non-linear ensemble of features

- Object: $\sum_{y_i > y_j} (\max\{0, f(q, d_j) - f(q, d_i)\})^2$

- Gradient descent boosting tree

- Boosting tree

- Using regression tree to minimize the residuals

- $r^t(q, d, y) = O^t(q, d, y) - f^{(t-1)}(q, d, y)$

