

# Pairwise Learning to Rank

- Ideally perfect partial order leads to perfect ranking
  - $f \rightarrow$  **partial order**  $\rightarrow$  order  $\rightarrow$  metric
- Ordinal regression
  - $O(f(Q, D), Y) = \sum_{i \neq j} \delta(y_i > y_j) \delta(f(q_i, d_i) < f(q_i, d_i))$ 
    - Relative ordering between different documents is significant

