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Regularized Ranking by a Linear Functional Strategy

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In this presentation we explore the possibility to employ regularization schemes for performing ranking tasks. We discuss a rather general approach to the regularization in reproducing kernel Hilbert space (RKHS) with the idea to mimic the best linear combination of the calculated regularized rankers corresponding to different values of the regularization parameter. The main result is the choice of the coefficients of the above mentioned linear combination that is based on the so-called linear functional strategy. We also discuss several applications where the proposed ranking algorithm can be effectively used.

This is joint work with G. Kriukova, S. Pereverzyev, P. Tkachenko.