Computational projection project

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Projection problems or the equivalent least norm problems $\min \|x\|_N, x \in X$ are widely used in theoretical studies as well as in computational practice with different norms $\|\cdot\|_N$ and different types of feasible sets X. In this communication apart from common polyhedral sets and polytopes the mixed orthogonal projection problems, projection on cones and their convolutions, dynamic decomposition methods for projection problems, difficulties of gaining high accuracy in projjection problems and other topics will be considered.

The algorithmic approaches considered here form the basis of the Open Source project, based on ResearchGate [1] which is intended to stimulate theoretical and experimental studies of projection problems and develop a corresponding software.

References

1. Computational convex polytope projection `https://www.researchgate.net/project/Computational-convex-polytope-projection`