

REPRESENTATION OF THE CONVEX HULL OF A FUNCTION

GEORG DOLZMANN

The convex envelope of a function can be defined as a supremum of supporting hyperplanes or as an infimum of convex combinations of points by Carathéodory's theorem. Motivated by applications in the engineering sciences, we propose a parameterization of the convex hull of a function which allows for an easy implementation if sufficient analytical information is available.