GEOMETRIC DESIGN OF A DAM BY VARIATIONAL SPLINE APPROXIMATION

A. H. Delgado, M. Pasadas and M. L. Rodríguez
Department of Applied Mathematics
University of Granada
E.T.S. Civil Engeniering of Granada, Spain
miguelrg@ugr.es

Our aim is to study how to combine conditions of interpolation and approxima- tion in order to generate a surface. Our method is developed from a variational approach. As an application of the use of the proposed methodology, we have designed the walls (surfaces) of a dam with all the geometric calculations and their computerized processing.