New Trends in Non-uniform Subdivision

Thomas Cashman, Michael Floater, Ron Goldman, Kai Hormann

University of Cambridge
University of Oslo
Rice University
University of Lugano

Abstract

This talk is about some recent results for non-uniform subdivision schemes. They can basically be grouped in two categories. On the one hand, we discuss linear, but non-uniform subdivision schemes. This includes non-uniform refine and smooth algorithms for B-spline curves as well as schemes for NURBS surfaces. On the other, we present truly non-linear subdivision schemes. This includes subdivision by non-linear averaging as well as the parametric equivalent to the uniform Dubuc–Deslauriers schemes.

References