Rational Generalised Ball Functions For The Visualization Of Monotonic Data

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A smooth curve interpolation scheme for monotonic data is developed. This scheme uses piecewise rational generalised Ball functions with quartic numerator and linear denominator, which involves two parameters. This rational spline scheme has a unique representation. The degree of smoothness attained is C^2. Some numerical results will be presented.

This is a joint work with Samsul Ariffin Abdul Karim and Lee Seng Lua.