

Optimization of bounds for polynomial roots

Doru Stefanescu (University of Bucharest, Romania)

E-mail address: `doru.stefanescu@gmail.com`

We present new results on the optimization of known bounds for the polynomial roots. We refine bounds for positive roots and for the absolute values of the roots of univariate polynomials with complex coefficients. In particular we improve the bound " $R+r$ " of Lagrange.