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Universally convex univalent functions

A function f analytic in the slit domain $\mathbb{C}[1,\infty]$ is called universally convex if it maps every circular domain containing the origin but not the point 1 univalently onto a convex domain. We give a complete characterization of those functions in terms of Hausdorff moment sequences, and show that this set is closed under convolutions (Hadamard product). Some generalisations are also mentioned.

Joint work with L. Salinas, Valparaíso, and T. Sugawa, Hiroshima.