

Some convergence results in discrete conformal geometry

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One of most prominent result on convergence is Rodin-Sullivan's solution of Thurston's conjecture on the convergence of circle packing to the Riemann mapping. Their solution depends heavily on the rigidity of the hexagonal circle packing of the plane. We will discuss our joint work with Tianqi Wu on a similar rigidity of hexagonal Delaunay triangulation of the plane and its implication on convergence of discrete conformal maps to the Riemann mapping. Some recent work of Tianqi Wu and Xiao-ping Zhu on convergence of discrete uniformization metrics on closed surfaces will also be introduced.