

## CONFORMAL MEASURES AND DENSITY ESTIMATION

**Manfred Denker**  
**Tina Facca**

*Abstract:* The notion of conformal measures or densities goes back to Patterson's work [8]. By a theorem of Milnor and Thurston [7] a piecewise monotone and continuous map of the interval is semiconjugate to one with constant slopes. The semiconjugacies can be defined by distribution functions of conformal measures as shown in [2]. In this note we show that for some transformations the conjugacies are estimable functions and can be used to improve estimation procedures, in particular density estimations.

**2000 AMS Mathematics Subject Classification:** Primary: 62G05, 37E05; Secondary: 62G07, 62G09, 37A05, 37A50.

**Keywords and phrases:** Resampling, interval map, conjugacy, density estimation.

THE FULL TEXT IS AVAILABLE [HERE](#)