

Report on research collaboration

between

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And

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Title of collaboration:

Pointwise and uniform convergence of multivariate kernel density estimators using random bandwidths

Summary of collaboration:

We obtain the rates of pointwise and uniform convergence of multivariate kernel density estimators using a random bandwidth vector obtained by some data-based algorithm. We are able to obtain faster rate for pointwise convergence. The uniform convergence rate is obtained under some moment condition on the marginal distribution. The rates are obtained under i.i.d. and strongly mixing type dependence assumptions.

Duration of collaboration:

The collaboration started in October 2014, Accepted 01 May 2015, Accepted author version posted online: 19 Apr 2016.

Details of collaboration:

Details of collaboration could be found in the article-

Pointwise and uniform convergence of multivariate kernel density estimators using random bandwidths, Communications in Statistics - Theory and Methods Volume 46, 2017 - Issue 6

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