Comments for the authors: "Degree Selection Methods for Curve Approximation via Bernstein Polynomials"

This manuscript considers the problem of selecting an appropriate degree for curve fitting using a Bernstein polynomial. Two methods are suggested for this task, and compared with several other criteria in a simulation study and for a small real example. Both referees have some serious concerns about the paper. These relate to the motivation for the importance of the problem, the practicality of the methodology requiring specification of information about turning points, the notation and clarity of mathematical details, the clarity of the writing and the extent to which the simulation study supports the claims in the rest of the text. The reports given by the referees are very extensive and the authors will find it very useful in guiding any revision.

I think both referees feel there may be some values in the methods suggested. However, a very major revision of this manuscript would be required if it is to be suitable for publication in the journal, and it is not clear whether the authors can be successful.