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A fuzzy logic based estimator for respondent driven sampling of complex networks

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## ACCEPTED MANUSCRIPT

#### \*Highlights (for review)

### Highlights

- We propose a novel RDS estimator that takes the node degrees as a fuzzy number and use fuzzy computing to obtain the outcome.
- We use various fuzzy membership functions and find the one with the best performance.
- Numerical results on synthetic and real networks show that our estimator significantly improves the performance.

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