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Predicting Software Revision Outcomes on GitHub Using Structural Holes Theory

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Highlights

- A novel approach combining ego-centric social network analysis, structural holes theory and survival analysis is used to predict software revision outcome
- A total of 32,962 revisions, 20,399 distinctive software project repositories, and a social network of 234,322 users were collected to validate the result
- Positional advantage in social network has been found to be associated with faster revision acceptance

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