

# NETWORK SCIENCE

Volume 9

Number 4

## CONTENTS

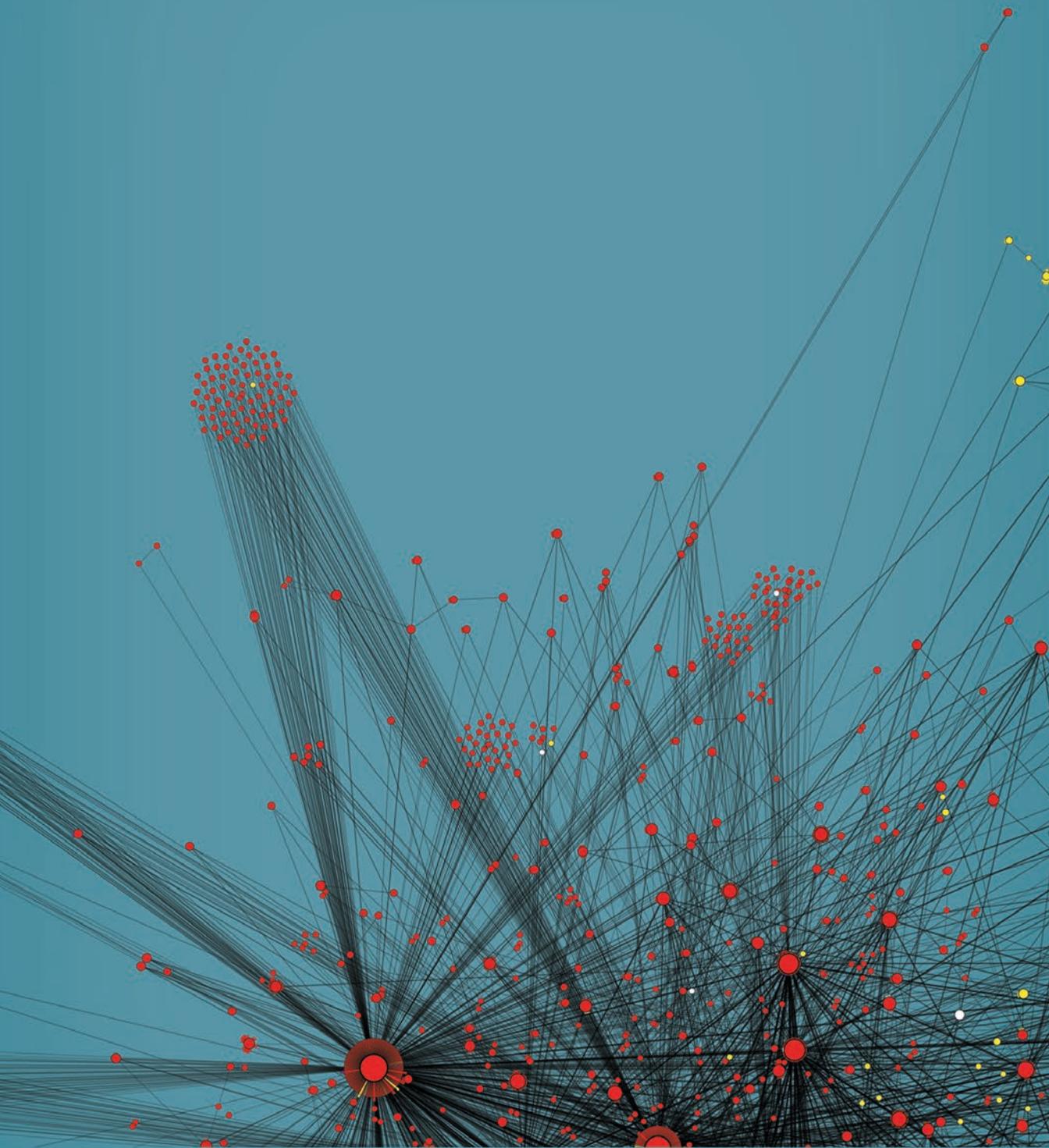
### Research Articles

Measuring reciprocity: Double sampling, concordance, and network construction ELSPETH READY AND ELEANOR A. POWER	387
Large very dense subgraphs in a stream of edges CLAIRE MATHIEU AND MICHEL DE ROUGEMONT	403
Cheating in online gaming spreads through observation and victimization JI EUN KIM AND MILENA TSVETKOVA	425
Toward a generalized notion of discrete time for modeling temporal networks KONSTANTIN KUEFFNER AND MARK STREMBECK	443
Iterative estimation of mixed exponential random graph models with nodal random effects S. KEVORK AND G. KAUERMANN	478

### Manuscript Submission Guidelines

Manuscripts for consideration for *Network Science* should be submitted online at <http://journals.cambridge.org/NWS>. For assistance, please contact the Editorial Office at [NWS@cambridge.org](mailto:NWS@cambridge.org).

For more detailed instructions for contributors please go to [cambridge.org/nws](http://cambridge.org/nws).



Cambridge Core

For further information about this journal please

go to the journal web site at:

[cambridge.org/nws](https://www.cambridge.org/nws)

**CAMBRIDGE**  
UNIVERSITY PRESS