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The effect of social tie on information diffusion in complex networks

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**Highlights:**

- (1) This manuscript examines the effect of social tie and network topology on information diffusion.
- (2) A novel information propagation model with social tie strength and self-confirming mechanism is proposed and analyzed.
- (3) Theoretical and experimental analysis of the proposed model is also examined, from which one can see that the equilibrium is globally asymptotically stable, and social tie plays a key role in information diffusion.

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