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Dynamic networks in dynamic populations

We study a randomly growing population (where new individuals are born and old die) in which edges between individuals appear and disappear randomly over time. A specific feature of the model is that individuals are born with a "social index" which affects how frequently they create new neighbours. For this model we study asymptotic properties valid after a long time: the degree distribution, degree correlation and a threshold condition determining whether a giant connected component exists or not. (Joint work with Mathias Lindholm and Tatyana Turova)