X.2.1 ILFM

For ILFM, the situation work to local preterential attachment is very similar to the one for global preterential attachment.

This is due to the fact that, a steert in Me (i.e given F and \$\phi), a beat obegree can be obtained in the same way as the global obspree above.

Considering the same generative process as before, for Me! He local degree in this le, 16 le k, for a node i such that fix = 1 is defined by:

di, k = \frac{\range}{\sum_{j=1}}, \frac{\range{\psi_{j=1}}}{\range{\psi_{j=1}}} \quad \frac{\gamma_{j=1}}{\range{\psi_{j=1}}}

Note that it fix=0, die =0 for all p.

This then leads to the following detinition of the local preferential attachment for ILPTT-

Definition (ILFN - local preferential attachments): tet the be a mobile of the local preferential attachment. We say that VI the solities the local preferential attachment effect the for any moting, for any node i (1 \(i \) \(i

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 $P(d_{i,k}^{(N)} > n+1 \mid d_{i,k}^{(p)} = n; Me)$ increases with n, $1 \le n < p$.

If $P(d_{i,k}^{(N)} > n+1 \mid d_{i,k}^{(p)} = n; Me)$ is independent if n, we say that the rodal is said to be taken new train with to the local preference attachment that