

[P15] Dynamic Property of Control Nodes in Complex Networks*Daniel Kim, KAIST*

We investigate that how removing control nodes of a directed network affect its asymptotic synchronization time in order to study indirect connection between controllability and synchronization in complex networks. Node removal is performed in three directed network types which are RAD, RDG[†], and REBG[‡] with different directionality.

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[‡] A. Zeng, S. W. Son, C. H. Yeung, Y. Fan, and Z. Di, Phys. Rev. E **83**, 045101 (2011).