

Jaccard approach:

$$\hat{\sigma}(r_i, r_j') = \frac{|V_i \cap V_j'|}{|V_i \cup V_j'|}$$

Intersection over product(IOP):

$$\hat{\sigma}(r_i, r_j') = \frac{|V_i \cap V_j'|}{|V_i| * |V_j'|}$$

Degree product of incident nodes (DPIN):

$$\hat{\sigma}(r_i, r_j') = \sum_{k=0}^{|S_v|} I_{ik}^T * S_{kk} * I_{kj}'$$

Normalized Degree product of incident nodes (NDPIN):

$$\hat{\sigma}(r_i, r_j') = \sum_{k=0}^{|S_v|} \frac{I_{ik}^T}{D_k} * S_{kk} * \frac{I_{kj}'}{D_k'}$$

PARIS:

$$Pr(r_i \subseteq r_j') = \frac{|(x, y) : r(x, y) \wedge r'(x, y)|}{|(x, y) : r(x, y)|}$$

	Jaccard approach	IOP ( 2nd approach )	DPIN	NDPIN	NDPIN ( Without repiicas )	PARIS Super- relation 1	PARIS Super- relation 2	PARIS Product of SR1 & SR2
Dataset								
Memory_alpha vs Memory_beta	0.890000	0.890000	0.880000	0.960000	0.940000	0.830000	0.900000	0.840000
Memory_alpha vs ST_expanded	0.870000	0.850000	0.770000	0.890000	0.910000	0.670000	0.760000	0.690000
Starwars vs Starwars_TOR	0.880000	0.850000	0.830000	0.910000	0.940000	0.660000	0.820000	0.670000
Starwars vs Starwars_galaxies	0.830000	0.830000	0.670000	0.660000	0.620000	0.500000	0.530000	0.530000