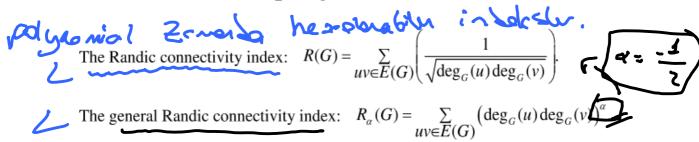
Derece Temelli Topolojiksel İndeksler



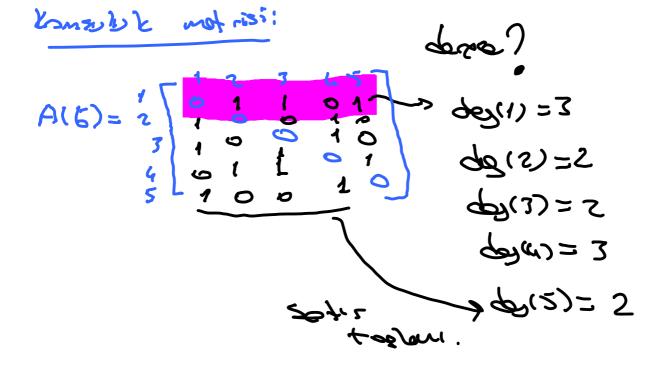
The general sum-connectivity index :
$$X_{\alpha}(G) = \sum_{uv \in E(G)} (\deg_G(u) + \deg_G(v))^{\alpha}$$

The first Zagreb index:
$$M_1(G) = \sum_{u \in V(G)} (\deg_G(u))^2$$

The second Zagreb index:
$$M_2(G) = \sum_{uv \in E(G)} (\deg_G(u) \deg_G(u)).$$

The harmonic index:
$$H(G) = \sum_{uv \in E(G)} \left(\frac{2}{\deg_G(u) + \deg_G(v)} \right)$$
.

The geometric-arithmetic (GA) index:
$$GA(G) = \sum_{uv \in E(G)} \left(\frac{2\sqrt{\deg_G(u)\deg_G(v)}}{\deg_G(u) + \deg_G(v)} \right)$$
.



$$= \frac{1}{\sqrt{3.2}} + \frac{1}{\sqrt{3.2}} + \frac{1}{\sqrt{3.2}} + \frac{1}{\sqrt{7.2}} + \frac{1}{\sqrt{7.2}} + \frac{1}{\sqrt{7.2}}$$

Coevel Rendic index;

$$\mathcal{L}(G) = \mathcal{E}(de_{J}(\omega), de_{J}(\omega))$$

$$= 6.6^{\alpha} = 6$$

$$a = -\frac{1}{2} =$$
) Realic inter= $6^{\frac{1}{2}} = 6^{\frac{1}{2}} = \sqrt{6}$

3) Coerel toplou-consolvity.

$$\times (6) = (6)(0) + 6)(0)$$

4) Birne: Boreb inter

$$H'(2) = 3_5 + 5_5 + 5_5 + 5_5$$

$$= 18 + 15 = 20$$

$$M_2(6) = \mathcal{Z}(des(1), des(4))$$

$$=6.(2.7)=\frac{70}{2}$$

$$H(G) = \underbrace{\frac{2}{2}}_{\text{outer}}$$

$$(46) = \left(\frac{2}{2+3}\right) \cdot 6 = \frac{2}{5} \cdot 6 = \frac{17}{5}$$

7) Goodrik-Aritantik indeks

$$GA(G) = 6.\left(\frac{2\sqrt{2.5}}{2+3}\right)$$

$$= 6. (2.5) = 12.5$$

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n tare oprit var.

n tare oprit

1) Rober : Laker:

 $P(K_{1,n}) = \sum_{u \in E(6)} \frac{1}{(des(u) + J(u))}$

 $= n. \left(\frac{1}{1.n}\right) = \frac{n}{n} = \frac{n}{n}$

Gener Rondie induksi

$$= n. (1.n) \approx -\frac{\alpha + 1}{n}$$

$$\sum_{i < i < i < n} \frac{1}{n^2} = \sum_{i < i < n$$

3) Gener (asus + do(a))
$$\times (X_{1,n}) = \sum_{u_{k} \in E(\varepsilon)} (d_{x}u_{k}) + d_{y}(u_{k})$$

$$M_1(K_{1n}) = 4. n^2 + n. 1^2$$

$$= n^2 + n$$

$$M_2(G) = \mathcal{Z}(dy(u), d_3(u))$$

$$W_{2}(\kappa_{1}) = n \cdot (n \cdot 1) - \frac{n^{2}}{2}$$

$$H(k_{l,n}) = n. \quad \frac{2}{n+1} = \frac{2n}{n+1}$$

$$GA(|C_{1n}) = n \cdot \left(\frac{2 \cdot \sqrt{n \cdot 1}}{n + 1}\right) = \left(\frac{2 \cdot \sqrt{n}}{n + 1}\right)$$

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