$$Sim (I_1, I_3) = (osine (I_1, I_3) = (osine ((2,5,3), (4,1,4.5)))$$

$$= \frac{2 \cdot 4 + 5 \cdot 1 + 3 \cdot 4 \cdot 5}{\sqrt{2^2 + 5^2 + 3^2} \cdot \sqrt{14^2 + 1^2 \cdot 4 \cdot 5^2}} = \frac{26 \cdot 5}{\sqrt{38} \cdot \sqrt{37.25}} = 0.7044$$

$$Sim (I_1, I_3) = (osine (I_1, I_3) = (osine ((3.5, 1, 4), (4, 1, 4.5)))$$

$$= \frac{3.5 \cdot 4 + 1 \cdot 1 + 4 \cdot 4 \cdot 5}{\sqrt{35^2 + 1^2 + 4^2} \cdot \sqrt{4^2 + 1^2 + 4 \cdot 5^2}} = \frac{33}{\sqrt{27.25} \cdot \sqrt{37.25}} = 0.9997$$

$$Sim (I_4, I_3) = (osine (I_4, I_3) = (osine ((3), (1)))$$

$$= \frac{3 \cdot 1}{\sqrt{3^2 \cdot \sqrt{1^2}}} = \frac{3}{3} = 1$$

$$Sim (I_5, I_3) = (osine (I_5, I_3) = (osine ((2.5,3), (4, 1, 4.5)))$$

$$= \frac{2 \cdot 4 + 5 \cdot 1 + 3 \cdot 4 \cdot 5}{\sqrt{2^2 + 5^2 + 1^2} \cdot \sqrt{4^2 + 1^2 + 4 \cdot 5^2}} = \frac{26.5}{\sqrt{38} \cdot \sqrt{37.25}} = 0.7044$$

$$r(U_1, I_3) = (0.7044 + 0.9947 + 1 + 0.7044) (4.5 \cdot 1 + 5 \cdot 0.7044)$$

 $=\left(\frac{1}{34085}\right)\left(12.4868\right)=3.6634 \approx 3.7$