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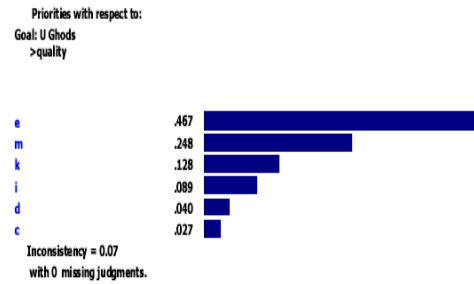
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$$\left(\begin{array}{l} \text{quality} = 0.248m + 0.467e + 0.089d + 0.04i \\ + 0.027c + 0.128k \end{array} \right) \quad ()$$

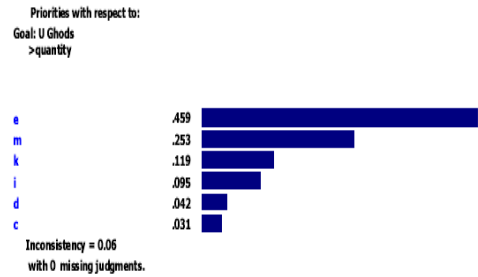
$$\left(\begin{array}{l} \text{quantity} = 0.253m + 0.459e + 0.095d + 0.042i \\ + 0.031c + 0.119k \end{array} \right) \quad ()$$

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Expertchoice

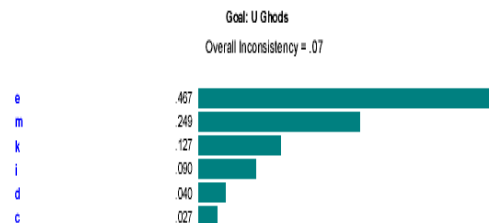


شکل ۱: وزن‌های عوامل تولید در کیفیت.



شکل ۲: وزن‌های عوامل تولید در کمیت.

Synthesis with respect to:



شکل ۳: وزن‌های عوامل تولید در مطلوبیت نهایی.

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$$\left(\begin{aligned} e^2 &= (Ax - y)(Ax - y)' \\ \text{Gradiente} &= 2A'(Ax - y) \\ &= 2A'Ax - A'y \\ mm &= A'Axo - A'y \\ xn &= xo - 0.0009mm \end{aligned} \right) \quad ()$$

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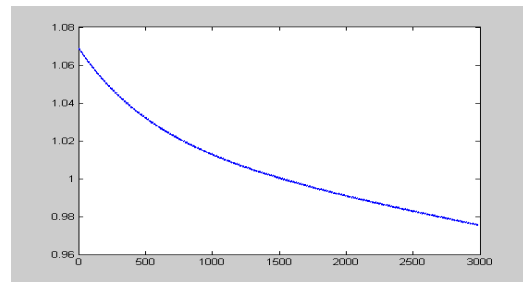
activation

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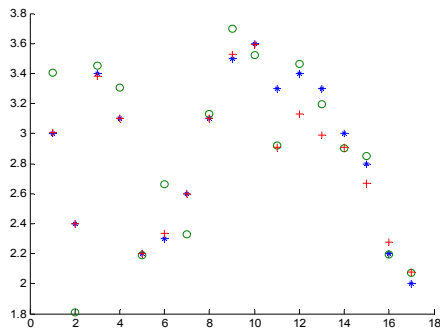
$$\left(\begin{aligned} \text{quality} &= 0.244m + 0.446e + 0.045d + 0.095i \\ &+ 0.046c + 0.122k \end{aligned} \right) \quad ()$$

$$\left(\begin{aligned} \text{quantity} &= 0.258m + 0.455e + 0.049d + 0.066i \\ &+ 0.051c + 0.121k \end{aligned} \right) \quad ()$$

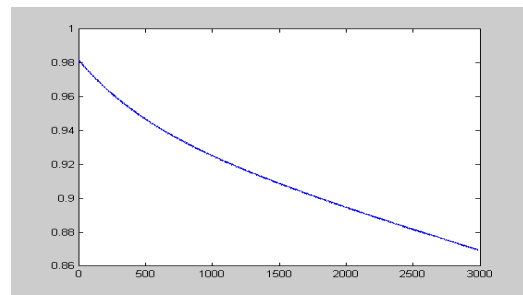
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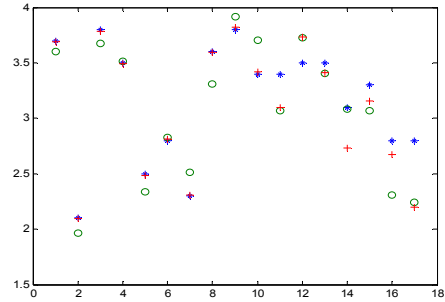
شکل ۴: کاهش خطای کیفیت.



شکل ۶: نمودار مقادیر واقعی، مدل اولیه و خروجی شبکه عصبی در رابطه با کمیت تولید.



شکل ۵: کاهش خطای کمیت.



شکل ۷: نمودار مقادیر واقعی، مدل اولیه و خروجی شبکه عصبی در رابطه با کیفیت تولید.

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