A companion to ”How different are ranking methods for fuzzy numbers? A numerical study”

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1 Scatter-plots depicting the relationship of different ranking methods

In [1], some numerical simulations were performed to investigate the relationship between different ranking methods for fuzzy numbers. In this companion to the article, the scatter-plots depicting the results of the numerical simulation are included. In the plots, every point represents one of the 1000 randomly generated trapezoidal fuzzy numbers with the support in the [0, 1] interval.

<table>
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<tr>
<th>Method</th>
<th>AD(^{0.5})</th>
<th>CoM</th>
<th>CoG</th>
<th>Med</th>
<th>C</th>
<th>E(_u)</th>
<th>Y(_2)</th>
<th>Y(_3)</th>
<th>Y(_4)</th>
<th>CH(^1)</th>
<th>K</th>
<th>BK</th>
<th>PD</th>
<th>N(^{0.5})</th>
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Table 1: The values indicate the numbering of the Figures containing the corresponding scatter-plots
References

Figure 1: AD$^{0.5}$ vs. CoM

Figure 2: AD$^{0.5}$ vs. CoG

Figure 3: AD$^{0.5}$ vs. Med

Figure 4: AD$^{0.5}$ vs. C

Figure 5: AD$^{0.5}$ vs. $E_p$

Figure 6: AD$^{0.5}$ vs. $Y_2$
Figure 7: $\text{AD}^{0.5} \text{ vs. } Y_3$

Figure 8: $\text{AD}^{0.5} \text{ vs. } Y_4$

Figure 9: $\text{AD}^{0.5} \text{ vs. } \text{CH}^1$

Figure 10: $\text{AD}^{0.5} \text{ vs. } K$

Figure 11: $\text{AD}^{0.5} \text{ vs. } \text{BK}$

Figure 12: $\text{AD}^{0.5} \text{ vs. } \text{PD}$
Figure 13: $AD^{0.5}$ vs. $N^{0.5}$

Figure 14: CoM vs. CoG

Figure 15: CoM vs. Med

Figure 16: CoM vs. $C$

Figure 17: CoM vs. $E_p$

Figure 18: CoM vs. $Y_2$
Figure 19: CoM vs. $Y_3$

Figure 20: CoM vs. $Y_4$

Figure 21: CoM vs. $CH^1$

Figure 22: CoM vs. $K$

Figure 23: CoM vs. $BK$

Figure 24: CoM vs. $PD$
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Figure 26: CoG vs. Med

Figure 27: CoG vs. C

Figure 28: CoG vs. $E_p$

Figure 29: CoG vs. $Y_2$

Figure 30: CoG vs. $Y_3$
Figure 37: Med vs. C

Figure 38: Med vs. E_p

Figure 39: Med vs. Y_2

Figure 40: Med vs. Y_3

Figure 41: Med vs. Y_4

Figure 42: Med vs. CH_1
Figure 43: Med vs. K

Figure 44: Med vs. BK

Figure 45: Med vs. PD

Figure 46: Med vs. N^{0.5}

Figure 47: C vs. E_p

Figure 48: C vs. Y_2
Figure 49: $C$ vs. $Y_3$

Figure 50: $C$ vs. $Y_4$

Figure 51: $C$ vs. $CH^1$

Figure 52: $C$ vs. $K$

Figure 53: $C$ vs. $BK$

Figure 54: $C$ vs. $PD$
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Figure 56: $E_p$ vs. $Y_2$

Figure 57: $E_p$ vs. $Y_3$

Figure 58: $E_p$ vs. $Y_4$

Figure 59: $E_p$ vs. $CH^1$

Figure 60: $E_p$ vs. $K$
Figure 67: $Y_2$ vs. $K$

Figure 68: $Y_2$ vs. $BK$

Figure 69: $Y_2$ vs. $PD$

Figure 70: $Y_2$ vs. $N^{0.5}$

Figure 71: $Y_3$ vs. $Y_4$

Figure 72: $Y_3$ vs. $CH^1$