

q -Metric	Data	Stat	Formula \sim (Eq.)
standard	$\mathcal{N}(0, 1)$	mean	$\left(\frac{2^q \Gamma(\frac{q+1}{2}) p}{\sqrt{\pi}} \right)^{1/q} \sim (38)$
standard	$\mathcal{N}(0, 1)$	variance	$\frac{4^q p}{q^2 \left(\frac{2^q \Gamma(\frac{1}{2} q + \frac{1}{2})}{\sqrt{\pi}} p \right)^{2(1-\frac{1}{q})}} \left[\frac{\Gamma(q+\frac{1}{2})}{\sqrt{\pi}} - \frac{\Gamma^2(\frac{1}{2} q + \frac{1}{2})}{\pi} \right] \sim (38)$
standard	$\mathcal{U}(0, 1)$	mean	$\left(\frac{2p}{(q+2)(q+1)} \right)^{1/q} \sim (48)$
standard	$\mathcal{U}(0, 1)$	variance	$\frac{p}{q^2 \left(\frac{2p}{(q+2)(q+1)} \right)^{2(1-\frac{1}{q})}} \left[\frac{1}{(q+1)(2q+1)} - \left(\frac{2}{(q+2)(q+1)} \right)^2 \right] \sim (48)$
max-min normalized	$\mathcal{N}(0, 1)$	mean	<div> $\frac{\mu_{D_{ij}^{(q)}}}{2\mu_{\alpha}^{(1)}(m)} \sim (93)$ </div> <p>where $\mu_{D_{ij}^{(q)}}$ and $\mu_{\alpha}^{(1)}(m)$ are given by Eqs. 38 and 87, respectively.</p>
max-min normalized	$\mathcal{N}(0, 1)$	variance	<div> $\frac{6\log(m)\sigma_{D_{ij}^{(q)}}^2}{\pi^2+24\left[\mu_{\alpha}^{(1)}(m)\right]^2\log(m)} \sim (93)$ </div> <p>where $\sigma_{D_{ij}^{(q)}}$ and $\mu_{\alpha}^{(1)}(m)$ are given by Eqs. 38 and 87, respectively.</p>
max-min normalized	$\mathcal{U}(0, 1)$	mean	<div> $\frac{(m+1)\mu_{D_{ij}^{(q)}}}{m-1} \sim (101)$ </div> <p>where $\mu_{D_{ij}^{(q)}}$ is given by Eq. 48</p>
max-min normalized	$\mathcal{U}(0, 1)$	variance	<div> $\frac{(m+2)(m+1)^2\sigma_{D_{ij}^{(q)}}^2}{m^3-m+2} \sim (101)$ </div> <p>where $\sigma_{D_{ij}^{(q)}}$ is given by Eq. 48</p>