

Formelsammlung

Statistik I

Häufigkeiten

Realisationsmöglichkeiten (Merkmalsausprägungen) des Merkmals X : x

Urliste (Folge von Beobachtungswerten): $x_1, x_2, \dots, x_{n-1}, x_n$

Geordnete Urliste („order statistic“): $x_{(1)} \leq x_{(2)} \leq \dots \leq x_{(n)}$

Sortierte Daten

Realisierte Merkmalsausprägungen: $a_1 \leq a_2 \leq \dots \leq a_j \leq \dots \leq a_k$

Absolute Häufigkeit der real. Merkmalsausprägungen a_j : $h(a_j)$ mit $\sum_{j=1}^k h(a_j) = n$

Relative Häufigkeit der real. Merkmalsausprägungen a_j : $f(a_j) = \frac{h(a_j)}{n}$ mit $\sum_{j=1}^k f(a_j) = 1$

Absolute kumulierte Häufigkeit: $H(x) = \sum_{a_j \leq x} h(a_j)$

Relative kumulierte Häufigkeit: $F(x) = \sum_{a_j \leq x} f(a_j)$

Gruppierte Daten

Realisierte Merkmalsausprägungen in Gruppen: $[a_1, a_2], [a_2, a_3], \dots, [a_{k-1}, a_k]$

Gruppenbreite: $h_j = a_j - a_{j-1}$

Gruppenmitte: $m_j = \frac{a_{j-1} + a_j}{2}$

Absolute Häufigkeit der j -ten Gruppe: h_j mit $\sum_{j=1}^k h_j = n$

Relative Häufigkeit der j -ten Gruppe: $f_j = \frac{h_j}{n}$ mit $\sum_{j=1}^k f_j = 1$

Histogramm (Räucherfreie Häufigkeitsdarstellung):

„Blockhöhe“ = f_j

$f_j = f(x) = \frac{h_j}{n}$ bzw.

$f_j = f(x) = \frac{h_j}{n}$ für $x \in [a_{j-1}, a_j]$, $j = 1, \dots, k$

Relative kumulierte Häufigkeit (relative Verteilungsfunktion)

An den Gruppenobergrenzen

$$F(a_j) = \sum_{i=1}^j f_i, \quad j = 1, \dots, k$$

Lineare Interpolation

$$F(x) = \begin{cases} F(a_{j-1}) & x < a_j \\ F(a_{j-1}) + (x - a_{j-1}) \cdot \frac{f_j}{h_j} & x \in [a_{j-1}, a_j], \quad j = 1, \dots, k \\ F(a_k) & x \geq a_k \end{cases}$$

Mittelwerte

Modus: Realisierte Ausprägung mit der größten Häufigkeit: j

Median: j

Für geordnete Daten $x_{(1)} \leq x_{(2)} \leq \dots \leq x_{(n)}$ gilt

$$\bar{x} = \begin{cases} x_{(\frac{n+1}{2})} & n \text{ ungerade} \\ \frac{1}{2} \cdot [x_{(\frac{n}{2})} + x_{(\frac{n}{2}+1)}] & n \text{ gerade} \end{cases}$$

$$F(\bar{x}) = 0.5; \quad F(\bar{x}) = 0.5 \rightarrow \bar{x} = j \quad (\text{gruppierte Daten})$$

Arithmetisches Mittel

Urliste

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$$

Sortierte Daten

$$\bar{x} = \frac{1}{n} \sum_{j=1}^k a_j \cdot h(a_j) = \sum_{j=1}^k a_j \cdot f(a_j)$$

Gruppierte Daten

$$\bar{x} = \frac{1}{n} \sum_{j=1}^k m_j \cdot h_j = \sum_{j=1}^k m_j \cdot f_j$$

Lineare Transformation

$$y_i = a + b \cdot x_i \rightarrow \bar{y} = a + b \cdot \bar{x}$$

Mathematik F R Wirtschaftswissenschaften Mit Formelsammlung

Emilie Sanchez



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