

Übungsaufgaben zu Thema 11 Eigenwerte und Eigenvektoren (z.T. mit Lösungen)

Aufgabe 1

Es seien $\begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$ die Koordinaten eines Vektors $\vec{x}$ bezüglich der Basis $B = \{\vec{b}_1, \vec{b}_2, \vec{b}_3\}$ mit

$$\vec{b}_1 = \begin{pmatrix} 0 \\ 1 \\ 2 \end{pmatrix}, \quad \vec{b}_2 = \begin{pmatrix} 1 \\ 2 \\ -1 \end{pmatrix}, \quad \vec{b}_3 = \begin{pmatrix} -1 \\ 1 \\ 4 \end{pmatrix}.$$

Welche Koordinaten besitzt $\vec{x}$ bezüglich der Standardbasis $E = \{\vec{e}_1, \vec{e}_2, \vec{e}_3\}$? Angenommen der Vektor $\vec{y}$ hat die Koordinaten $\begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$ in der Standardbasis. Welche Koordinaten hat $\vec{y}$ bezüglich der Basis B ?

Anleitung: Beschreiben Sie die Basiswechsel mittels der Matrix $M = (\vec{b}_1 | \vec{b}_2 | \vec{b}_3)$ bzw. deren inverser Matrix!

Lösung:

Die aus den Vektoren der Basis B gebildete Matrix M ,

$$M = \begin{pmatrix} 0 & 1 & -1 \\ 1 & 2 & 1 \\ 2 & -1 & 4 \end{pmatrix},$$

dient zur Umrechnung von Koordinaten bezüglich der Basis B in Koordinaten bezüglich der Standardbasis.

Der Vektor x mit den Koordinaten $x_B = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$ bezüglich der Basis B hat bezüglich der Standardbasis die Koordinaten

$$x_E = Mx_B = \begin{pmatrix} 0 & 1 & -1 \\ 1 & 2 & 1 \\ 2 & -1 & 4 \end{pmatrix} \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} = \begin{pmatrix} -1 \\ 8 \\ 12 \end{pmatrix}.$$

Um Koordinaten bezüglich der Standardbasis in Koordinaten bezüglich der Basis B zu transformieren, benötigt man die inverse Matrix M^{-1} .

Wir berechnen die inverse Matrix M^{-1} mit dem Gauß-Jordan-Algorithmus, indem wir $(M | I_3)$

Vt Lsgen 3

Fridrich Arends



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