

RACINES CARRÉES DE MATRICES

CCP MP 2005 Maths 2

I DÉTERMINATION DE $\text{Rac}(A)$ DANS QUELQUES EXEMPLES

Exemple 1 : Cas où A possède n valeurs propres distinctes

- On peut par exemple (après géométrisation) prendre une famille de vecteurs propres associés aux n valeurs propres. Puisque ces valeurs propres sont distinctes, cette famille est libre, donc constitue une base de l'espace de travail... Mais le plus rapide consiste probablement à dire que le polynôme caractéristique possède n racines distinctes, donc est scindé à racines simples¹.

A est diagonalisable dans $\mathcal{M}_n(\mathbb{R})$

Si $R^2 = A = PDP^{-1}$, alors $(P^{-1}RP)^2 = P^{-1}R^2P = P^{-1} \cdot PDP^{-1} \cdot P = D$. La réciproque est du même tonneau (on doit même pouvoir accepter des équivalences, dans ce contexte...).

$R^2 = A$ si et seulement si $(P^{-1}RP)^2 = D$

- On a $S^2 = D$, donc $SD = S \cdot S^2 = S^3 = S^2 \cdot S = DS$.

$DS = SD$

- Le contexte pousse visiblement à une solution matricielle plutôt que géométrique (les sous-espaces propres de telle application sont stables par telle autre application; etc...)

Calculons donc, pour $1 \leq i, j \leq n$, les coefficients (i, j) des matrices en jeu. D'une part, $(DS)_{i,j} = \lambda_i S_{i,j}$, et d'autre part $(SD)_{i,j} = \lambda_j S_{i,j}$. Lorsque $i \neq j$, l'égalité $\lambda_i S_{i,j} = \lambda_j S_{i,j}$, ou encore $(\lambda_i - \lambda_j)S_{i,j} = 0$ impose (puisque $\lambda_i \neq \lambda_j$) : $S_{i,j} = 0$.

S est diagonale

- Bien entendu, $S^2 = \text{diag}(s_1^2, \dots, s_n^2) = D = \text{diag}(\lambda_1, \dots, \lambda_n)$, et donc :

$s_i^2 = \lambda_i$ pour tout $i \in [1; n]$.

- Si l'un des λ_i est strictement négatif, la question précédente conduit à une contradiction.

Si A possède une valeur propre strictement négative, alors $\text{Rac}(A) = \emptyset$.

- Supposons que tous les valeurs propres λ_i sont positives ou nulles. Les questions précédentes nous disent que si S est une racine carrée de D , alors S est de la forme $\text{diag}(c_1\sqrt{\lambda_1}, \dots, c_n\sqrt{\lambda_n})$, avec $(c_1, \dots, c_n) \in \{-1, 1\}^n$. La réciproque est évidente (mais il faut bien sûr la montrer).

$\text{Rac}(D) = \{\text{diag}(c_1\sqrt{\lambda_1}, \dots, c_n\sqrt{\lambda_n}) : (c_1, \dots, c_n) \in \{-1, 1\}^n\}$

- D'après la question 1, R est dans $\text{Rac}(A)$ si et seulement si $P^{-1}RP$ est dans $\text{Rac}(D)$, ou encore : $R = PSP^{-1}$, avec $S \in \text{Rac}(D)$:

$\text{Rac}(A) = \{P \text{diag}(c_1\sqrt{\lambda_1}, \dots, c_n\sqrt{\lambda_n})P^{-1} : (c_1, \dots, c_n) \in \{-1, 1\}^n\}$

Si les λ_i sont tous strictement positifs, $\text{Rac}(D)$ possède 2^n éléments, donc $\text{Rac}(A)$ aussi (l'application $M \mapsto PMP^{-1}$ est injective). Si l'un des λ_i est nul, il est alors unique (les λ_i sont distincts deux à deux), et D possède alors, comme A , 2^{n-1} racines.

A possède 2^n racine si A est inversible, et 2^{n-1} sinon.

¹C'est un théorème du cours ; bien entendu, si l'on veut le démontrer... on prend une famille de vecteurs propres, et on démontre qu'elle est libre comme dit précédemment !

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