Chú ý phân tích PLU

Đổi chỗ các phần tử trong L khi pivoting

Trong quá trình biến đổi (Pivot + Gaussian elimination) mình tìm được P^T, còn cần chuyển vị để quay lại P (hình như cũng không cần).

PLU đổi chỗ 2 dòng chứ 0 phải đổi dòng max magnitude lên đầu.

https://math.stackexchange.com/questions/485513/what-are-pivot-numbers-in-lu-decomposition-please-explain-me-in-an-example

Cần thống nhất lại để viết.

Mathematical Matrix Methods lie at the root of most methods of machine learning and data analysis of tabular data. Learn the basics of Matrix Methods, including matrix-matrix multiplication, solving linear equations, orthogonality, and best least squares approximation. Discover the Singular Value Decomposition that plays a fundamental role in dimensionality reduction, Principal Component Analysis, and noise reduction. Optional examples using Python are used to illustrate the concepts and allow the learner to experiment with the algorithms.

<https://www.coursera.org/learn/matrix-methods>

This course gives you an introduction to modeling methods and simulation tools for a wide range of natural phenomena. The different methodologies that will be presented here can be applied to very wide range of topics such as fluid motion, stellar dynamics, population evolution, ... This course does not intend to go deeply into any numerical method or process and does not provide any recipe for the resolution of a particular problem. It is rather a basic guideline towards different methodologies that can be applied to solve any kind of problem and help you pick the one best suited for you. The assignments of this course will be made as practical as possible in order to allow you to actually create from scratch short programs that will solve simple problems. Although programming will be used extensively in this course we do not require any advanced programming experience in order to complete it.

<https://www.coursera.org/learn/modeling-simulation-natural-processes>