Solving least-squares problems (II)

1分

This is a continuation of the last problem. This time, you are given the matrix A and the right-hand side vector b, and your goal is to compute the coefficients a and b in the least-squares solution vector $x = (a, b)$ so that $y(t) = a + tb$ is the best fit (in the 2-norm) to the given data.

Also use the function `plot_solution(a, b)` to visualize your result.

Use a QR factorization of A (from `scipy.linalg.qr` (http://docs.scipy.org/doc/scipy/reference/generated/scipy.linalg.qr.html)) to solve the least-squares problem $Ax \cong b$.

INPUT:

- System matrix `A` and right-hand side vector `b`
- Plotting function `plot_solution(a, b)`

OUTPUTS:

- `alpha` , `beta`

评分代码 (点击查看)

起始代码 (点击查看)

回答*

```
import scipy.linalg as la

alpha =
beta =

plot_solution(a, b)
```

按F9以打开/关闭全屏模式. 在 用户信息 (/profile/) 中设置编辑器模式.

保存回答 提交用于评分的回答

(您仍然可以在提交**本问题**后修改回答)