

NUMERICAL METHODS

C / RAPPY EXAM 12 / 11/19 / 2022 [20.000]

LEAST SQUARES REGRESSION

Goal: minimize the sum of the squares of the residual errors.



$$S_r = \sum_{i=1}^n d_i = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)$$

$$S_r^2 = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)^2$$

$$a_0 = \frac{\sum y_i}{n} \quad a_1 = \frac{\sum x_i y_i - \frac{(\sum x_i)(\sum y_i)}{n}}{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}$$

STANDARD ERROR:

$$S_{y_1} = \sqrt{\frac{S_r}{n-2}} \quad S_{y_2} = \sqrt{\frac{S_r (1 - r^2)}{n-2}}$$

STANDARD DEVIATION:

$$S_y = \sqrt{\frac{S_r}{n-1}} \quad S_x = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

POLYNOMIAL QUADRATIC REGRESSION:



$$S_r = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$$

Take derivatives of S_r to find the error.

$$\frac{\partial S_r}{\partial a_0} = -2(\sum y_i - \sum a_0 - a_1 \sum x_i - a_2 \sum x_i^2) = 0$$

$$\frac{\partial S_r}{\partial a_1} = -2(\sum x_i y_i - \sum a_0 \sum x_i - a_1 \sum x_i^2 - a_2 \sum x_i^3) = 0$$

$$\frac{\partial S_r}{\partial a_2} = -2(\sum x_i^2 y_i - \sum a_0 \sum x_i^2 - a_1 \sum x_i^3 - a_2 \sum x_i^4) = 0$$

$$\begin{bmatrix} \sum 1 & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \\ \sum x_i^2 y_i \end{bmatrix}$$

Matrix inversion to find coefficients.

INTERPOLATION

Use a polynomial $P(x)$



ODE'S

Euler's Method:
 $y_{i+1} = y_i + f(x_i, y_i) \Delta x$

Runge-Kutta Method:

Runge-Kutta Method:
 $y_{i+1} = y_i + f(x_i, y_i) \Delta x$
 $y' = \frac{y^2 + 2x}{2} = f(x, y)$

Taylor Series:
 $y(x+\Delta x) = y(x) + y'(x)\Delta x + \frac{y''(x)}{2!}(\Delta x)^2 + \dots$

CLASSIC 4th ORDER Runge-Kutta:

$$y_{i+1} = y_i + \frac{\Delta x}{4} (k_1 + 2k_2 + 2k_3 + k_4)$$

$$k_1 = f(x_i, y_i)$$

$$k_2 = f(x_i + \frac{1}{2}\Delta x, y_i + \frac{1}{2}k_1 \Delta x)$$

$$k_3 = f(x_i + \frac{1}{2}\Delta x, y_i + k_2 \Delta x)$$

$$k_4 = f(x_i + \Delta x, y_i + k_3 \Delta x)$$

PDE'S

FINITE DIFFERENCE METHOD:



EIGEN VALUES

$\lambda = \text{Eigen Value}$

Example: 2×2

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} \lambda x_1 \\ \lambda x_2 \end{bmatrix}$$

The determinant:

$$\begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

Single 2×2 :

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \quad \det(A - \lambda I) = \det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix}$$

$$\det(A - \lambda I) = (a-\lambda)(d-\lambda) - bc = \lambda^2 - (a+d)\lambda + (ad-bc)$$

Full matrix with path:

$$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$x_1 = -x_2$
 $x_1 = x_2$
 Eigen values: $\lambda_1 = 0, \lambda_2 = 0$

$\begin{bmatrix} 1 & -1 \\ 1 & -1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

$-x_1 + x_2 = 0 \Rightarrow x_1 = x_2$
 $x_1 + -1x_2 = 0 \Rightarrow x_1 = x_2$

Eigen values: $\lambda_1 = 0, \lambda_2 = 0$
 Two eigenvectors: $\begin{bmatrix} 1 \\ 1 \end{bmatrix}, \begin{bmatrix} 1 \\ -1 \end{bmatrix}$

1D Heat Conduction



Central Difference:
 $u_{i+1}(t) = u_i(t) - \Delta x u_x(x_i, t) + \frac{\Delta x^2}{2} u_{xx}(x_i, t)$
 $u_{i-1}(t) = u_i(t) + \Delta x u_x(x_i, t) - \frac{\Delta x^2}{2} u_{xx}(x_i, t)$

2D Heat Conduction



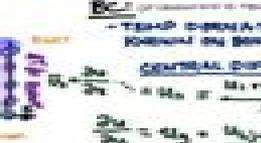
Central Difference:
 $u_{i+1, j} = u_{i, j} + \Delta x u_x + \frac{\Delta x^2}{2} u_{xx}$
 $u_{i-1, j} = u_{i, j} - \Delta x u_x + \frac{\Delta x^2}{2} u_{xx}$

1D Advection



Upwind Scheme:
 $u_{i+1} = u_i + \frac{u_i - u_{i-1}}{\Delta x} \Delta x$
 $u_{i-1} = u_i - \frac{u_i - u_{i-1}}{\Delta x} \Delta x$

2D Advection



Upwind Scheme:
 $u_{i+1, j} = u_{i, j} + \frac{u_{i, j} - u_{i-1, j}}{\Delta x} \Delta x$
 $u_{i, j+1} = u_{i, j} + \frac{u_{i, j} - u_{i, j-1}}{\Delta y} \Delta y$

5th Rank of a Matrix



Central Difference:
 $u_{i+1} = u_i + \frac{u_i - u_{i-1}}{\Delta x} \Delta x + \frac{\Delta x^2}{2} u_{xx}$
 $u_{i-1} = u_i - \frac{u_i - u_{i-1}}{\Delta x} \Delta x + \frac{\Delta x^2}{2} u_{xx}$

[A] MATRIX:

Interior nodes:
 $-u_{i-1, j} + 4u_{i, j} - u_{i+1, j} - u_{i, j-1} - u_{i, j+1} = -2 \Delta x^2 u_{xx}$
 $-2u_{i-1, j} + 4u_{i, j} - u_{i+1, j} - u_{i, j-1} - u_{i, j+1} = -2 \Delta x^2 u_{xx}$
 $-u_{i-1, j} - u_{i+1, j} + 4u_{i, j} - 2u_{i, j-1} = -2 \Delta x^2 u_{xx}$
 $-u_{i-1, j} - u_{i+1, j} + 4u_{i, j} - 2u_{i, j-1} = -2 \Delta x^2 u_{xx}$

FINITE DIFFERENCE

Centered Finite-Difference Scheme:
 $f(x) = \frac{f(x+\Delta x) - f(x-\Delta x)}{2\Delta x}$
 $f(x) = \frac{f(x+\Delta x) + 3f(x) - 3f(x-\Delta x) + f(x)}{4\Delta x}$

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RJ Shavelson



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