

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.

Residual: $e_i = y_i - \hat{y}_i$

Sum of Squares: $S = \sum_{i=1}^n e_i^2 = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)^2$

Normal Equations:

$$\frac{\partial S}{\partial a_0} = -2 \sum_{i=1}^n (y_i - a_0 - a_1 x_i) = 0$$

$$\frac{\partial S}{\partial a_1} = -2 \sum_{i=1}^n x_i (y_i - a_0 - a_1 x_i) = 0$$

Matrix form: $\begin{bmatrix} n & \sum x_i \\ \sum x_i & \sum x_i^2 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \end{bmatrix}$

STANDARD ERROR:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-2}}$$

$$S_{y|x} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$$

STANDARD DEVIATION:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-1}}$$

$$S_{y|x} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$$

INTERPOLATION

Use a 4th order polynomial

Order	Nodes	Degree	Nodes	Degree
1	2	1	2	1
2	3	2	3	2
3	4	3	4	3
4	5	4	5	4

Polynomial: $P_n(x) = a_0 + a_1 x + a_2 x^2 + \dots + a_n x^n$

Order: $n=1, 2, 3, 4, 5$

Turns: $0, 1, 2, 3, 4$

Splices: $P_n = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i}$

POLYNOMIAL QUADRATIC REGRESSION

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

Residual: $e_i = y_i - \hat{y}_i$

Sum of Squares: $S = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$

Normal Equations:

$$\frac{\partial S}{\partial a_0} = -2 \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0$$

$$\frac{\partial S}{\partial a_1} = -2 \sum_{i=1}^n x_i (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0$$

$$\frac{\partial S}{\partial a_2} = -2 \sum_{i=1}^n x_i^2 (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0$$

Matrix form: $\begin{bmatrix} n & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \\ \sum x_i^2 y_i \end{bmatrix}$

ODE'S

Runge-Kutta Method:

$$y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

Heun's Method:

$$y_{i+1} = y_i + f(x_i, y_i) \Delta x + \frac{1}{2} (f(x_i, y_i) - f(x_{i+1}, y_{i+1})) \Delta x^2$$

Taylor Series:

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

CLASSIC 4th ORDER RUNGE-KUTTA

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

$k_1 = f(x_i, y_i)$
 $k_2 = f(x_i + \frac{1}{2} \Delta x, y_i + \frac{1}{2} \Delta x k_1)$
 $k_3 = f(x_i + \frac{1}{2} \Delta x, y_i + \Delta x k_2)$
 $k_4 = f(x_i + \Delta x, y_i + \Delta x k_3)$

Local truncation error: $O(\Delta x^5)$

EIGEN VALUES

$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

Characteristic equation: $\det(A - \lambda I) = 0$

$$(a - \lambda)(d - \lambda) - bc = 0$$

$$\lambda^2 - (a+d)\lambda + (ad-bc) = 0$$

Eigenvalues: $\lambda = \frac{a+d \pm \sqrt{(a-d)^2 + 4bc}}{2}$

Eigenvectors: $(A - \lambda I)v = 0$

PDE'S

FINITE DIFFERENCE METHOD

Central Difference:

$$\frac{\partial^2 u}{\partial x^2} \approx \frac{u_{i+1} - 2u_i + u_{i-1}}{\Delta x^2}$$

Boundary conditions:

Left: $u(0) = 0 \Rightarrow u_0 = 0$

Right: $u(L) = 0 \Rightarrow u_N = 0$

5th ORDER OF A MATRIX

Central Difference:

$$\frac{\partial^2 u}{\partial x^2} \approx \frac{u_{i+2} - 4u_{i+1} + 6u_i - 4u_{i-1} + u_{i-2}}{\Delta x^2}$$

Boundary conditions:

Left: $u_0 = 0$

Right: $u_N = 0$

[A] MATRIX

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

Top: $u_1 = 0$

Bottom: $u_N = 0$

FINITE DIFFERENCE

Centered Finite-Difference Equations:

$$f(x) \approx \frac{f(x+\Delta x) - f(x-\Delta x)}{2\Delta x}$$

$$f''(x) \approx \frac{f(x+\Delta x) - 2f(x) + f(x-\Delta x))}{\Delta x^2}$$

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