

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	3	2
2	3	2	4	3
3	4	3	5	4
4	5	4	6	5

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

Newton's form: $P_n(x) = f(x_0) + f[x_0, x_1](x-x_0) + \dots + f[x_0, \dots, x_n](x-x_0)\dots(x-x_{n-1})$

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

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:

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

Classical Runge-Kutta:

$$y_{i+1} = y_i + \Delta x \left(\frac{1}{6} k_1 + \frac{4}{6} k_2 + \frac{1}{6} k_3 \right)$$

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

Taylor Series

$$y(x) = y_0 + y_0' \Delta x + \frac{y_0''}{2!} (\Delta x)^2 + \dots$$

CLASSICAL 4th ORDER RUNGE-KUTTA

$$y_{i+1} = y_i + \Delta x \left(\frac{1}{6} k_1 + \frac{4}{6} k_2 + \frac{1}{6} k_3 \right)$$

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

PDE'S

FINITE DIFFERENCE METHOD

Central Difference:

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

Forward Difference:

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

Backward Difference:

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

EIGEN VALUES

Single 2x2:

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

$$\det(A - \lambda I) = \det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} = (a-\lambda)(d-\lambda) - bc = 0$$

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

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

RIGHT BOUNDARY B.C.

$$\frac{\partial u}{\partial x} = u_x = \frac{u_{i+1} - u_{i-1}}{2\Delta x}$$

$$u_{i+1} = u_{i-1} + 2\Delta x u_x$$

TOP BOUNDARY B.C.

$$\frac{\partial u}{\partial y} = u_y = \frac{u_{i+1} - u_{i-1}}{2\Delta y}$$

$$u_{i+1} = u_{i-1} + 2\Delta y u_y$$

LEFT BOUNDARY B.C.

$$u_{i+1} = u_{i-1} - 2\Delta x u_x$$

[A] MATRIX

Central Difference:

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

Forward Difference:

$$-u_{i-1} + 9u_i - u_{i+1} = -2\Delta x^2 u_{xx}$$

Backward Difference:

$$-u_{i+1} + 9u_i - u_{i-1} = -2\Delta x^2 u_{xx}$$

FINITE DIFFERENCE

Centered Finite-Difference:

$$f(x) = \frac{f(x_0) - f(x_1) - f(x_2) + f(x_3) + f(x_4) - f(x_5) + f(x_6)}{12h}$$

RIGHT BOUNDARY B.C.

$$\frac{\partial u}{\partial x} = u_x = \frac{u_{i+1} - u_{i-1}}{2\Delta x}$$

$$u_{i+1} = u_{i-1} + 2\Delta x u_x$$

TOP BOUNDARY B.C.

$$\frac{\partial u}{\partial y} = u_y = \frac{u_{i+1} - u_{i-1}}{2\Delta y}$$

$$u_{i+1} = u_{i-1} + 2\Delta y u_y$$

LEFT BOUNDARY B.C.

$$u_{i+1} = u_{i-1} - 2\Delta x u_x$$

Numerical Analysis Notes Bca

Guillaume Favre



Numerical Analysis Notes Bca:

Numerical Analysis Notes Bca Book Review: Unveiling the Magic of Language

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