

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.



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

Residual Error = $y_i - \hat{y}_i$

$$a_0 = \frac{\sum y_i - a_1 \sum x_i}{n}$$

$$a_0 = \frac{\sum y_i}{n} - a_1 \frac{\sum x_i}{n}$$

STANDARD ERROR:

$$S_{y_1} = \sqrt{\frac{\sum y_i^2}{n-2}} \quad S_{y_2} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$$

STANDARD DEVIATION:

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

$$a_0 = \bar{y} - a_1 \bar{x}$$

POLYNOMIAL QUADRATIC REGRESSION:



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

Take derivative of S_r to find the error.

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

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

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

$$\begin{bmatrix} \sum x_i^0 & \sum x_i^1 & \sum x_i^2 \\ \sum x_i^1 & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum y_i x_i \\ \sum y_i x_i^2 \end{bmatrix}$$

Matrix inversion

INTERPOLATION

Use a polynomial fit:



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

Order	Turns
n=1	0
n=2	1
n=3	2
n=4	3
n=5	n-1

SPLINES:

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

ODE'S

Euler's Method

$$\frac{dy}{dx} = f(x,y) \quad y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

Runge-Kutta Method

$$\frac{dy}{dx} = f(x,y)$$

$$y' = \frac{y^2 + 2x}{2} = f(x,y)$$

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

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

Classic 4th order Runge-Kutta

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

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

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

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

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

PDE'S

Finite Difference Method



EIGEN VALUES

$\lambda = \text{Eigen Value}$

$$\begin{bmatrix} a_{11} - \lambda & a_{12} & a_{13} \\ a_{21} & a_{22} - \lambda & a_{23} \\ a_{31} & a_{32} & a_{33} - \lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

Single 2x2:

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$A - \lambda I = \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

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

Two Eigen Values with same λ :

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

$$ax_1 + bx_2 = 0 \Rightarrow x_1 = -\frac{b}{a} x_2$$

$$cx_1 + dx_2 = 0 \Rightarrow x_1 = -\frac{d}{c} x_2$$

$$-\frac{b}{a} = -\frac{d}{c} \Rightarrow \frac{b}{a} = \frac{d}{c} \Rightarrow bc = ad$$

Two Eigen Values with different λ :

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

$$-bx_1 + ax_2 = 0 \Rightarrow x_1 = \frac{a}{b} x_2$$

$$cx_1 - dx_2 = 0 \Rightarrow x_1 = \frac{d}{c} x_2$$

$$\frac{a}{b} = \frac{d}{c} \Rightarrow ac = bd$$

RIGHT BOUNDARY BC

Top boundary: $T = T_0$

Bottom boundary: $T = T_1$

Central Difference:

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

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

LEFT BOUNDARY BC

Top boundary: $T = T_0$

Bottom boundary: $T = T_1$

Central Difference:

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

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

TOP BOUNDARY BC

Central Difference:

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

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

5th Row of A Matrix

Central Difference:

$$[0 \quad -1 \quad 0 \quad 1 \quad 0 \quad -1 \quad 0 \quad 1 \quad 0] u = 0$$

[A] MATRIX:

Central Difference:

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

Top Boundary BC:

$$-2u_{1,j} + u_{1,j-1} + u_{1,j+1} = -2\Delta x^2 u_{xx}$$

Bottom Boundary BC:

$$-2u_{N,j} + u_{N,j-1} + u_{N,j+1} = -2\Delta x^2 u_{xx}$$

FINITE DIFFERENCE:

Central Difference:

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

$$f(x) = \frac{f(x+\Delta x) + 3f(x) - 3f(x-\Delta x) + f(x+\Delta x))}{12\Delta x}$$

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Cesar Lopez



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