

NUMERICAL METHODS

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

LEAST SQUARES REGRESSION

GOAL: MINIMIZE THE SUM OF THE SQUARES OF THE RESIDUALS (ERRORS)



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

1. SUM OF THE SQUARES OF THE RESIDUALS
2. MINIMIZE THE SQUARES OF THE RESIDUALS

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

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

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:

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

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

$$y = a_0 + a_1 x$$

POLYNOMIAL QUADRATIC REGRESSION:

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

1. TAKE DERIVATIVE OF S_r TO FIND THE ZERO

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

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

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

$$\begin{bmatrix} \sum 1 & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \\ \sum x_i^2 y_i \end{bmatrix} \rightarrow [A][X] = [B]$$

COEFFICIENT OF DETERMINATION
 $R^2 = \frac{S_{y_1}^2}{S_y^2}$

PDE'S

FINITE DIFFERENCE METHOD:



PROBLEM 1:
T is 2D Cartesian
T is 2D Cartesian
L = 0, R = 1
S = 0, T = 1
B = 0, C = 1
- CENTRAL DIFFERENCE
 $u_{i,j}(t) = \frac{u_{i+1,j} + u_{i-1,j} + u_{i,j+1} + u_{i,j-1} - 4u_{i,j}}{\Delta x^2}$
 $u_{i,j}(t) = \frac{u_{i,j+1} + u_{i,j-1} - 2u_{i,j}}{\Delta y^2} + \frac{u_{i+1,j} + u_{i-1,j} - 2u_{i,j}}{\Delta x^2} + q$

EIGEN VALUES

1. EIGEN VALUE
2. EIGEN VECTOR

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

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

2x2:
 $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} \lambda x \\ \lambda y \end{bmatrix}$
 $\Delta(x) = \det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} = 0$
 $\lambda = \frac{a+d}{2} \pm \sqrt{\left(\frac{a-d}{2}\right)^2 + bc}$

3x3:
 $\begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} \lambda x_1 \\ \lambda x_2 \\ \lambda x_3 \end{bmatrix}$
 $x_1 = -x_2$
 $x_2 = -x_3$
 $x_3 = x_1$

4x4:
 $\begin{bmatrix} a & b & c & d \\ e & f & g & h \\ i & j & k & l \\ m & n & o & p \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix} = \begin{bmatrix} \lambda x_1 \\ \lambda x_2 \\ \lambda x_3 \\ \lambda x_4 \end{bmatrix}$
 $-x_2 + x_3 = 0 \rightarrow x_2 = x_3$
 $x_1 + -x_2 = 0 \rightarrow x_1 = x_2$
 $x_3 = x_1$
 $x_4 = 0$

INTERPOLATION

USE 2 POINTS: LINEAR
USE 3 POINTS: QUADRATIC
USE 4 POINTS: CUBIC
USE 5 POINTS: QUARTIC

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

ORDER:
n=1: —
n=2: ~
n=3: ~
n=4: ~
n=5: ~

DEGREE:
Degree 1: —
Degree 2: ~
Degree 3: ~
Degree 4: ~

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

ODE'S

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

HEUN'S METHOD:
 $y_{i+1} = y_i + f(x_i, y_i) \Delta x$
 $\frac{dy}{dx} = f(x, y)$

CLASSIC 4th ORDER RUNGE-KUTTA:
 $y_{i+1} = y_i + \frac{\Delta x}{4} (k_1 + 3k_2 + 3k_3 + k_4)$
 $k_1 = f(x_i, y_i)$
 $k_2 = f(x_i + \frac{1}{2}\Delta x, y_i + \frac{1}{2}k_1 \Delta x)$
 $k_3 = f(x_i + \frac{1}{2}\Delta x, y_i + k_2 \Delta x)$
 $k_4 = f(x_i + \Delta x, y_i + k_3 \Delta x)$

TAYLOR SERIES:
 $y(x+\Delta x) = y(x) + \Delta x \frac{dy}{dx} + \frac{\Delta x^2}{2} \frac{d^2y}{dx^2} + \dots$
 $y(x+\Delta x) = y(x) + f(x, y) \Delta x$

CLASSIC 4th ORDER RUNGE-KUTTA:
 $y_{i+1} = y_i + \Delta x \frac{1}{4} (k_1 + 3k_2 + 3k_3 + k_4)$
 $k_1 = f(x_i, y_i)$
 $k_2 = f(x_i + \frac{1}{2}\Delta x, y_i + \frac{1}{2}k_1 \Delta x)$
 $k_3 = f(x_i + \frac{1}{2}\Delta x, y_i + k_2 \Delta x)$
 $k_4 = f(x_i + \Delta x, y_i + k_3 \Delta x)$

NUMERICAL

RIGHT NEIGHBOR B.C.:
 $\frac{\partial u}{\partial x} = u_x = \frac{u_{i+1} - u_i}{\Delta x}$
 $u_{i+1} = u_i + 2\Delta x u_x$

NUMERICAL

LEFT NEIGHBOR B.C.:
 $\frac{\partial u}{\partial x} = u_x = \frac{u_i - u_{i-1}}{\Delta x}$
 $u_{i-1} = u_i - 2\Delta x u_x$

NUMERICAL

TOP NEIGHBOR B.C.:
 $\frac{\partial u}{\partial y} = u_y = \frac{u_{i,j+1} - u_{i,j}}{\Delta y}$
 $u_{i,j+1} = u_{i,j} + 2\Delta y u_y$

NUMERICAL

LEFT NEIGHBOR B.C.:
 $u_{i,j} = u_{i,j-1} - 2\Delta y u_y$

[A] MATRIX:
 $u_{i,j+1} = u_{i,j} + 2\Delta x u_x$
 $-2u_{i,j+1} + 4u_{i,j} - u_{i,j-1} = -2\Delta x u_x$
 $-2u_{i,j+1} + 4u_{i,j} - u_{i,j-1} = -2\Delta x u_x$
 $-u_{i,j} - u_{i,j-1} + 4u_{i,j} - 2u_{i,j-1} = -2\Delta x u_x$
TOP:
 $-u_{i,j} - u_{i,j-1} + 4u_{i,j} - 2u_{i,j-1} = -2\Delta x u_x$

TRICKS:
CENTERED FINITE-DIFFERENCE:
 $f(x) = \frac{f(x_{i+1}) - f(x_{i-1}))}{2\Delta x}$
 $f(x) = \frac{f(x_{i+1}) - 3f(x_i) + 3f(x_{i-1}) + f(x_{i-2}))}{12\Delta x}$

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Lingjun Ying



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