

NUMERICAL METHODS

C / KAPPA EXAM 12 / 11/19 / 2022 / 20.000

LEAST SQUARES REGRESSION

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

RESIDUAL: $y_i - \hat{y}_i$

RESIDUAL SUM OF SQUARES (RSS): $\sum (y_i - \hat{y}_i)^2$

REGRESSION LINE: $\hat{y} = a_0 + a_1 x$

MINIMIZE: $S = \sum (y_i - a_0 - a_1 x_i)^2$

DERIVATIVES: $\frac{\partial S}{\partial a_0} = 0$, $\frac{\partial S}{\partial a_1} = 0$

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

Example: $a_0 = 5 - 0.8$, $a_1 = 3 - 0.2$

POLYNOMIAL QUADRATIC REGRESSION:

GOAL: MINIMIZE THE SUM OF THE SQUARES OF THE RESIDUALS

REGRESSION CURVE: $\hat{y} = a_0 + a_1 x + a_2 x^2$

MINIMIZE: $S = \sum (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$

DERIVATIVES: $\frac{\partial S}{\partial a_0} = 0$, $\frac{\partial S}{\partial a_1} = 0$, $\frac{\partial S}{\partial a_2} = 0$

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

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

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

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

$[A][X] = [B]$

$[X] = [A]^{-1}[B]$

STANDARD ERROR: $S_y = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$, $S_{y_0} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2} \frac{1}{1 - x_0^2}}$

STANDARD DEVIATION: $S_y = \sqrt{\frac{\sum (y_i - \bar{y})^2}{n-1}}$, $S_{y_0} = \sqrt{\frac{\sum (y_i - \bar{y})^2}{n-1} \frac{1}{1 - x_0^2}}$

INTERPOLATION

LINEAR: $P_1(x) = a_0 + a_1 x$

QUADRATIC: $P_2(x) = a_0 + a_1 x + a_2 x^2$

CUBIC: $P_3(x) = a_0 + a_1 x + a_2 x^2 + a_3 x^3$

LAGRANGE: $P(x) = \sum_{j=0}^n \frac{(x-x_1)\dots(x-x_n)}{(x_0-x_1)\dots(x_0-x_n)} y_j$

NEWTON: $P(x) = y_0 + \frac{(x-x_0)}{x_1-x_0} (y_1-y_0) + \dots$

SPLINES: $P(x) = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i} (x - x_i) + f(x_i)$

ODE'S

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

HEUN'S METHOD: $y_{i+1} = y_i + f(x_i, y_i) \Delta x + \frac{1}{2} (f(x_i, y_i) + f(x_{i+1}, y_{i+1})) \Delta x$

Runge-Kutta 4th order: $y_{i+1} = y_i + \Delta x (k_1 + 2k_2 + 2k_3 + k_4)$

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

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

CLASSIC 4th ORDER RUNGE-KUTTA:

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

$k_1 = f(x_i, y_i)$

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

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

$k_4 = f(x_i + \Delta x, y_i + \Delta x k_1)$

PDE'S

FINITE DIFFERENCE METHOD:



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

Single 2x2: $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

$\det(A - \lambda I) = 0$

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

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

2x2 matrix with trace: $\text{Tr}(A) = a + d$

$\det(A) = ad - bc$

Eigenvalues: λ_1, λ_2

Eigenvectors: x_1, x_2

$[A - \lambda I]x = 0$

$(a - \lambda)x_1 + bx_2 = 0$

$cx_1 + (d - \lambda)x_2 = 0$

HEAT CONDUCTION

1D Heat Conduction: $\frac{\partial^2 T}{\partial x^2} = 0$

Central Difference: $T_{i+1} - 2T_i + T_{i-1} = 0$

Boundary Conditions: $T_0 = T_L$, $T_N = T_R$

CONVECTION-HEAT CONDUCTION

1D Convection-Heat Conduction: $\frac{\partial^2 T}{\partial x^2} + Pe \frac{\partial T}{\partial x} = 0$

Central Difference: $T_{i+1} - 2T_i + T_{i-1} + Pe(T_{i+1} - T_{i-1}) = 0$

HEAT CONDUCTION IN 2D

2D Heat Conduction: $\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} = 0$

Central Difference: $T_{i,j+1} + T_{i,j-1} + T_{i+1,j} + T_{i-1,j} - 4T_{i,j} = 0$

CONVECTION-HEAT CONDUCTION IN 2D

2D Convection-Heat Conduction: $\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} + Pe_x \frac{\partial T}{\partial x} + Pe_y \frac{\partial T}{\partial y} = 0$

Central Difference: $T_{i,j+1} + T_{i,j-1} + T_{i+1,j} + T_{i-1,j} - 4T_{i,j} + Pe_x(T_{i+1,j} - T_{i-1,j}) + Pe_y(T_{i,j+1} - T_{i,j-1}) = 0$

5th ROW OF A MATRIX

Row sum of matrix: $\sum_{j=1}^n a_{5j} = 0$

Matrix: $\begin{bmatrix} 0 & -1 & 0 & -1 & 0 & -1 & 0 & -1 & 0 \end{bmatrix}$

[A] MATRIX: $a_{i,j} = 9\delta_{i,j} - \delta_{i,j+1} - \delta_{i,j-1}$

Row 1: $9a_{1,1} - a_{1,2} - a_{1,0} = 9a_{1,1} - a_{1,2} = -2\Delta x G_1$

Row 2: $9a_{2,1} - a_{2,2} - a_{2,0} = 9a_{2,1} - a_{2,0} - a_{2,2} = -2\Delta x G_2$

Row 3: $9a_{3,1} - a_{3,2} - a_{3,0} = 9a_{3,1} - a_{3,0} - a_{3,2} = -2\Delta x G_3$

Row 4: $9a_{4,1} - a_{4,2} - a_{4,0} = 9a_{4,1} - a_{4,0} - a_{4,2} = -2\Delta x G_4$

FINITE DIFFERENCES

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

Second Order: $f''(x) = \frac{f(x+\Delta x) - 2f(x) + f(x-\Delta x))}{\Delta x^2}$

Numerical Analysis Using R

Didier Musso



Numerical Analysis Using R:

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