

# 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)

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

MINIMIZE:  $\sum (y_i - \hat{y}_i)^2$

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

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

Example:  $\sum x_i = 10, \sum y_i = 20, \sum x_i^2 = 30, \sum x_i y_i = 40, n = 5$

$a_1 = \frac{n \sum x_i y_i - \sum x_i \sum y_i}{n \sum x_i^2 - (\sum x_i)^2} = \frac{5 \cdot 40 - 10 \cdot 20}{5 \cdot 30 - 100} = \frac{200 - 200}{150 - 100} = \frac{0}{50} = 0$

$a_0 = \frac{\sum y_i - a_1 \sum x_i}{n} = \frac{20 - 0 \cdot 10}{5} = 4$

## POLYNOMIAL QUADRATIC REGRESSION

GOAL: MINIMIZE THE SUM OF THE SQUARES OF THE RESIDUALS

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

COEFFICIENTS:  $a_0 = \frac{\sum y_i - a_1 \sum x_i - a_2 \sum x_i^2}{n}$

Example:  $\sum x_i = 10, \sum y_i = 20, \sum x_i^2 = 30, \sum x_i^3 = 100, \sum x_i^4 = 350, \sum x_i y_i = 40, \sum x_i^2 y_i = 140, n = 5$

$a_2 = \frac{n \sum x_i^2 y_i - \sum x_i^2 \sum y_i - \sum x_i \sum x_i y_i + \frac{(\sum x_i)^2 \sum y_i}{n}}{n \sum x_i^4 - \sum x_i^2 (\sum x_i)^2 - \frac{(\sum x_i)^3 \sum x_i y_i}{n} + \frac{(\sum x_i)^4 \sum y_i}{n^2}}$

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

$\rightarrow [A][X] = [B]$

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

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

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

## INTERPOLATION

LAGRANGE:  $L(x) = \prod_{j \neq i} \frac{x - x_j}{x_i - x_j} y_i$

DEGREE 1:  $L(x) = \frac{y_1(x - x_2) + y_2(x - x_1)}{x_1 - x_2}$

DEGREE 2:  $L(x) = \frac{y_1(x - x_2)(x - x_3) + y_2(x - x_1)(x - x_3) + y_3(x - x_1)(x - x_2)}{(x_1 - x_2)(x_1 - x_3) + \dots}$

DEGREE n:  $L(x) = \sum_{i=1}^n y_i \prod_{j \neq i} \frac{x - x_j}{x_i - x_j}$

SPAINES:  $P_n = \frac{f(x_{n+1}) - f(x_n)}{x_{n+1} - x_n}$

## ODE'S

EUROPE METHOD:  $y_{n+1} = y_n + f(x_n, y_n) \Delta x$

HEUN'S METHOD:  $y_{n+1} = y_n + \frac{f(x_n, y_n) + f(x_{n+1}, y_{n+1})}{2} \Delta x$

Runge-Kutta 4th order:  $y_{n+1} = y_n + \Delta x \sum_{i=1}^4 k_i$

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

## CLASSIC 4th ORDER RUNGE-KUTTA

$k_1 = f(x_n, y_n)$

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

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

$k_4 = f(x_n + \Delta x, y_n + \Delta x k_3)$

$y_{n+1} = y_n + \Delta x \frac{k_1 + 2k_2 + 2k_3 + k_4}{4}$

## PDE'S

### FINITE DIFFERENCE METHOD



## EIGEN VALUES

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

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

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

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

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

Example:  $A = \begin{bmatrix} 2 & 1 \\ 1 & 2 \end{bmatrix}$

$\det(A - \lambda I) = (2 - \lambda)^2 - 1 = 0$

$\lambda^2 - 4\lambda + 3 = 0$

$(\lambda - 1)(\lambda - 3) = 0$

Eigenvalues:  $\lambda_1 = 1, \lambda_2 = 3$

Example:  $A = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$

$\det(A - \lambda I) = (1 - \lambda)^2 = 0$

Eigenvalue:  $\lambda = 1$  (multiplicity 2)

Example:  $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

Eigenvalues:  $\lambda_1 = 1, \lambda_2 = 1$

### HEAT CONDUCTION

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

Steady State:  $\frac{d^2 T}{dx^2} = 0$

Boundary conditions:  $T(0) = T_1, T(L) = T_2$

Solution:  $T(x) = \frac{T_2 - T_1}{L} x + T_1$

### HEAT CONDUCTION

2D Heat Conduction:  $\nabla^2 T = 0$

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

### HEAT CONDUCTION

Right Boundary B.C.:  $\frac{\partial T}{\partial x} = 0$

Central Difference:  $T_{i,j} = \frac{2T_{i+1,j} + T_{i-1,j} + 2T_{i,j+1} + T_{i,j-1}}{6}$

### HEAT CONDUCTION

Left Boundary B.C.:  $\frac{\partial T}{\partial x} = 0$

Central Difference:  $T_{i,j} = \frac{T_{i-1,j} + 2T_{i+1,j} + T_{i-1,j+1} + T_{i+1,j-1}}{6}$

### HEAT CONDUCTION

Top Boundary B.C.:  $\frac{\partial T}{\partial y} = 0$

Central Difference:  $T_{i,j} = \frac{T_{i,j+1} + T_{i,j-1} + 2T_{i+1,j} + T_{i-1,j}}{4}$

### HEAT CONDUCTION

Bottom Boundary B.C.:  $\frac{\partial T}{\partial y} = 0$

Central Difference:  $T_{i,j} = \frac{T_{i,j+1} + T_{i,j-1} + 2T_{i+1,j} + T_{i-1,j}}{4}$

[A] MATRIX:  $A_{i,j} = \begin{cases} -1 & j = i-1 \\ 4 & j = i \\ -1 & j = i+1 \\ 0 & \text{elsewhere} \end{cases}$

Example:  $A_{2,1} = -1, A_{2,2} = 4, A_{2,3} = -1$

## FINITE DIFFERENCES

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

Example:  $f(x) = x^2$

$f'(x) = \frac{(x+h)^2 - (x-h)^2}{2h} = \frac{x^2 + 2xh + h^2 - x^2 + 2xh - h^2}{2h} = \frac{4xh}{2h} = 2x$

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