

# NUMERICAL METHODS

C / KAPPA 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  $d_i = y_i - \hat{y}_i$

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

$$Q_0 = \sum_{i=1}^n y_i^2 \quad Q_1 = \sum_{i=1}^n x_i y_i \quad Q_2 = \sum_{i=1}^n x_i^2$$

## 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 minimum

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

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

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

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

Use Gauss-Jordan elimination

## STANDARD ERROR:

$$S_{y_1} = \sqrt{\frac{S_r}{n-2}} \quad S_{y_2} = \sqrt{\frac{S_r (1 - r^2)}{n-2}}$$

## STANDARD DEVIATION:

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

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

$$a_1 = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2}$$

## INTERPOLATION

Use a polynomial  $P(x)$



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

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

## SPINES:

$$P_1 = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i}$$

## 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

$$y' = f(x,y)$$

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

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

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

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

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

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

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

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

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

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

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

## PDE'S

### Finite Difference Method



## EIGEN VALUES

$\lambda = \text{Eigen Value}$

Example:  $2 \times 2$

$$\begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} \lambda x_1 \\ \lambda x_2 \end{bmatrix}$$

The determinant

$$\begin{bmatrix} a_{11} - \lambda & a_{12} \\ a_{21} & a_{22} - \lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

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

$$D(x) = \det \begin{bmatrix} a - \lambda & b \\ c & d - \lambda \end{bmatrix} = 0$$

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

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

Find Eigen Value

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

$$ax_1 + bx_2 = \lambda x_1$$

$$cx_1 + dx_2 = \lambda x_2$$

$$x_1 = \begin{bmatrix} - \\ \end{bmatrix}$$

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

$$-ax_1 + bx_2 = 0 \quad x_1 = x_2$$

$$cx_1 - dx_2 = 0 \quad x_1 = x_2$$

$$D(x) = \begin{bmatrix} - \\ \end{bmatrix}$$

### 1D Heat Conduction



$$u_{i+1}(t) = u_i(t) - \alpha \Delta x (u_{i+1} - u_i) + \alpha \Delta x (u_i - u_{i-1})$$

$$u_{i+1}(t) = u_i(t) + \alpha \Delta x (u_{i+1} - u_i) + \alpha \Delta x (u_i - u_{i-1})$$

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### 2D Heat Conduction



$$u_{i+1,j} = u_{i,j} + \alpha \Delta x (u_{i+1,j} - u_{i,j}) + \alpha \Delta y (u_{i,j+1} - u_{i,j})$$

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### 3D Heat Conduction



$$u_{i+1,j,k} = u_{i,j,k} + \alpha \Delta x (u_{i+1,j,k} - u_{i,j,k}) + \alpha \Delta y (u_{i,j+1,k} - u_{i,j,k}) + \alpha \Delta z (u_{i,j,k+1} - u_{i,j,k})$$

$$u_{i+1,j,k} = u_{i,j,k} + \alpha \Delta x (u_{i+1,j,k} - u_{i,j,k}) + \alpha \Delta y (u_{i,j+1,k} - u_{i,j,k}) + \alpha \Delta z (u_{i,j,k+1} - u_{i,j,k})$$

$$u_{i+1,j,k} = u_{i,j,k} + \alpha \Delta x (u_{i+1,j,k} - u_{i,j,k}) + \alpha \Delta y (u_{i,j+1,k} - u_{i,j,k}) + \alpha \Delta z (u_{i,j,k+1} - u_{i,j,k})$$

$$u_{i+1,j,k} = u_{i,j,k} + \alpha \Delta x (u_{i+1,j,k} - u_{i,j,k}) + \alpha \Delta y (u_{i,j+1,k} - u_{i,j,k}) + \alpha \Delta z (u_{i,j,k+1} - u_{i,j,k})$$

### 5th Rank of a Matrix



$$\begin{bmatrix} 0 & -1 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$u_{i+1,j} = u_{i,j} + \alpha \Delta x (u_{i+1,j} - u_{i,j}) + \alpha \Delta y (u_{i,j+1} - u_{i,j})$$

$$u_{i+1,j} = u_{i,j} + \alpha \Delta x (u_{i+1,j} - u_{i,j}) + \alpha \Delta y (u_{i,j+1} - u_{i,j})$$

$$u_{i+1,j} = u_{i,j} + \alpha \Delta x (u_{i+1,j} - u_{i,j}) + \alpha \Delta y (u_{i,j+1} - u_{i,j})$$

### Left Boundary B.C.

$$u_{i=0,j} = u_{i=0,j} - 2\alpha \Delta x u_{i=0,j}$$

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# Numerical Analysis Using R

**Chao Zhang**



## **Numerical Analysis Using R:**

## Decoding **Numerical Analysis Using R**: Revealing the Captivating Potential of Verbal Expression

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