

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.



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

1. sum of the square errors.
2. minimize the square of the errors.

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

$$a_0 = \frac{\sum y_i}{n} - a_1 \frac{\sum x_i}{n} \Rightarrow a_0 = 5 - 0.8$$

STANDARD ERROR:

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

STANDARD DEVIATION:

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

$$a_0 = 5 - 0.8x$$

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.

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

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

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

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

$S_y = \sqrt{\frac{\sum y_i^2}{n}}$
COEFFICIENT OF DETERMINATION
 $r^2 = \frac{S_{y_1}^2}{S_y^2}$

INTERPOLATION

Use a polynomial $P(x)$

LAGRANGE	LAGRANGE	LAGRANGE	LAGRANGE
2 pts 1 Lagrange $P(x) = a_0 + a_1 x + a_2 x^2 + \dots + a_n x^n$	3 pts 2 Lagrange	4 pts 3 Lagrange	5 pts 4 Lagrange
ORDER n=1 n=2 n=3 n=4			
		TURNS 0 1 2 3	
			SPLINES: $P_n = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i}$

ODE'S

EULER METHOD

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

HEUN'S METHOD

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

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

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

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

CLASSIC 4th ORDER RUNGE-KUTTA

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

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

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

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

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

FORWARD FINITE DIFFERENCE-KUTTA
 $y_{i+1} = y_i + \Delta x \sum_{j=1}^4 k_j$ LATER ORDER
 $y_{i+1} = y_i + \Delta x \sum_{j=1}^4 k_j$ SAME ORDER

PDE'S

FINITE DIFFERENCE METHOD



EIGEN VALUES

$\lambda =$ EIGEN VALUE

EXAMPLE:

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

TRICK:

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

Single 2x2:

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

$$[A] = \frac{1}{\det(A)} \begin{bmatrix} d & -b \\ -c & a \end{bmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

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

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

Two 3x3 with given

$$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$1x_1 + 1x_2 = 0 \Rightarrow x_1 = -x_2$$

$$1x_1 + 1x_2 = 0 \Rightarrow x_1 = -x_2$$

$$x_1 = \begin{bmatrix} 1 \\ -1 \end{bmatrix}$$

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

$$-1x_1 + 1x_2 = 0 \Rightarrow x_1 = x_2$$

$$1x_1 + -1x_2 = 0 \Rightarrow x_1 = x_2$$

$$[A] = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

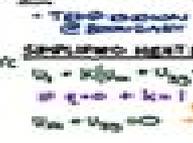
PROBLEM 1



$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

PROBLEM 2



$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

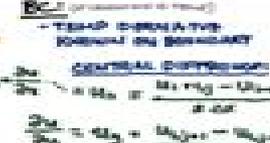
PROBLEM 3



$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

PROBLEM 4



$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

5th ROW OF A MATRIX



$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

$$u_x(x,y) = u(x,y) - u(x,y) = 0$$

[A] MATRIX:

$$-2u_{i,j-1} + 4u_{i,j} - 2u_{i,j+1} = -2\Delta x \bar{u}_i$$

$$-2u_{i,j-1} + 4u_{i,j} - 2u_{i,j+1} = -2\Delta x \bar{u}_i$$

$$-2u_{i,j-1} + 4u_{i,j} - 2u_{i,j+1} = -2\Delta x \bar{u}_i$$

$$-2u_{i,j-1} + 4u_{i,j} - 2u_{i,j+1} = -2\Delta x \bar{u}_i$$

FINITE DIFFS:

CENTERED FINITE-DIFFERENTIAL

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

$$f(x) = \frac{f(x+\Delta x) - 3f(x) + f(x-\Delta x))}{2\Delta x}$$

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1. Understanding the eBook Numerical Analysis Lecture Notes Math User Home Pages
 - The Rise of Digital Reading Numerical Analysis Lecture Notes Math User Home Pages
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Analysis Lecture Notes Math User Home Pages
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Analysis Lecture Notes Math User Home Pages
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Analysis Lecture Notes Math User Home Pages
 - Personalized Recommendations
 - Numerical Analysis Lecture Notes Math User Home Pages User Reviews and Ratings
 - Numerical Analysis Lecture Notes Math User Home Pages and Bestseller Lists
5. Accessing Numerical Analysis Lecture Notes Math User Home Pages Free and Paid eBooks
 - Numerical Analysis Lecture Notes Math User Home Pages Public Domain eBooks
 - Numerical Analysis Lecture Notes Math User Home Pages eBook Subscription Services
 - Numerical Analysis Lecture Notes Math User Home Pages Budget-Friendly Options
6. Navigating Numerical Analysis Lecture Notes Math User Home Pages eBook Formats

- ePub, PDF, MOBI, and More
 - Numerical Analysis Lecture Notes Math User Home Pages Compatibility with Devices
 - Numerical Analysis Lecture Notes Math User Home Pages Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Analysis Lecture Notes Math User Home Pages
 - Highlighting and Note-Taking Numerical Analysis Lecture Notes Math User Home Pages
 - Interactive Elements Numerical Analysis Lecture Notes Math User Home Pages
 8. Staying Engaged with Numerical Analysis Lecture Notes Math User Home Pages
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Analysis Lecture Notes Math User Home Pages
 9. Balancing eBooks and Physical Books Numerical Analysis Lecture Notes Math User Home Pages
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Analysis Lecture Notes Math User Home Pages
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Numerical Analysis Lecture Notes Math User Home Pages
 - Setting Reading Goals Numerical Analysis Lecture Notes Math User Home Pages
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Numerical Analysis Lecture Notes Math User Home Pages
 - Fact-Checking eBook Content of Numerical Analysis Lecture Notes Math User Home Pages
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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