

NUMERICAL METHODS

C / KAPPA EXAM 12 / 11/19 / 2022 [20.00]

LEAST SQUARES REGRESSION

Goal: minimize the sum of the squares of the residual errors.

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

STANDARD ERROR:
 $S_{y_1} = \sqrt{\frac{S_y}{n-2}}$ $S_{y_2} = \sqrt{\frac{S_y (1-x^2)}{n-2}}$

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

INTERPOLATION

Use a 4th order polynomial

Order	Degree	Nodes	Points
1	1	2	2
2	2	3	3
3	3	4	4
4	4	5	5

$P_n(x) = a_0 + a_1 x + a_2 x^2 + \dots + a_n x^n$
 $P_n = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i}$

POLYNOMIAL QUADRATIC REGRESSION

Goal: minimize the sum of the squares of the residual errors.

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

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

ODE'S

Runge-Kutta Method:
 $y_{i+1} = y_i + f(x_i, y_i) \Delta x$

Heun's Method:
 $y' = f(x, y)$
 $y_{i+1} = y_i + \frac{\Delta x}{2} [f(x_i, y_i) + f(x_{i+1}, y_{i+1})]$

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

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

PDE'S

FINITE DIFFERENCE METHOD

- Central Difference
 $\frac{\partial^2 u}{\partial x^2} = \frac{u_{i+1} - 2u_i + u_{i-1}}{\Delta x^2}$

EIGEN VALUES

$\lambda = \text{Eigen Value}$

Example:
 $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$
 $\det(A - \lambda I) = \det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} = (a-\lambda)(d-\lambda) - bc = 0$
 $\lambda^2 - (a+d)\lambda + (ad-bc) = 0$
 $\lambda = \frac{a+d \pm \sqrt{(a+d)^2 - 4(ad-bc)}}{2}$

Single 2x2:
 $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$
 $\det(A - \lambda I) = (a-\lambda)(d-\lambda) - bc = 0$
 $\lambda^2 - (a+d)\lambda + (ad-bc) = 0$
 $\lambda = \frac{a+d \pm \sqrt{(a+d)^2 - 4(ad-bc)}}{2}$

Two Eigen Values:
 $\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$
 $(a-\lambda)x_1 + bx_2 = 0$
 $cx_1 + (d-\lambda)x_2 = 0$
 $x_1 = \begin{bmatrix} -b \\ \lambda - a \end{bmatrix}$

Two Eigen Values:
 $\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$
 $(a-\lambda)x_1 + bx_2 = 0$
 $cx_1 + (d-\lambda)x_2 = 0$
 $x_1 = \begin{bmatrix} -b \\ \lambda - a \end{bmatrix}$

HEAT CONDUCTION

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

Central Difference:
 $u_{i,j+1} = \frac{\alpha^2}{\Delta x^2} (\Delta t)^2 (u_{i+1,j} - 2u_{i,j} + u_{i-1,j}) + u_{i,j}$

RIGHT BOUNDARY B.C.

$\frac{\partial u}{\partial x} = u = \frac{u_{i+1} - u_{i-1}}{2\Delta x}$
 $u_{i,j} = u_{i+1,j} + 2\Delta x u_{i,j}$

BOTTOM BOUNDARY B.C.

$\frac{\partial u}{\partial x} = u = \frac{u_{i+1} - u_{i-1}}{2\Delta x}$
 $u_{i,j} = u_{i-1,j} - 2\Delta x u_{i,j}$

TOP BOUNDARY B.C.

$\frac{\partial u}{\partial x} = u = \frac{u_{i+1} - u_{i-1}}{2\Delta x}$
 $u_{i,j} = u_{i+1,j} + 2\Delta x u_{i,j}$

LEFT BOUNDARY B.C.

$\frac{\partial u}{\partial x} = u = \frac{u_{i+1} - u_{i-1}}{2\Delta x}$
 $u_{i,j} = u_{i-1,j} - 2\Delta x u_{i,j}$

[A] MATRIX

$u_{i,j+1} = \frac{\alpha^2}{\Delta x^2} (\Delta t)^2 (u_{i+1,j} - 2u_{i,j} + u_{i-1,j}) + u_{i,j}$
 $-2u_{i,j} + u_{i+1,j} + u_{i-1,j} = -2\Delta x u_{i,j}$
 $-2u_{i,j} + u_{i+1,j} + u_{i-1,j} = -2\Delta x u_{i,j}$
 $-u_{i-1,j} - u_{i+1,j} + 4u_{i,j} - 2u_{i,j} = -2\Delta x u_{i,j}$
 $-u_{i-1,j} - u_{i+1,j} + 4u_{i,j} - 2u_{i,j} = -2\Delta x u_{i,j}$

FINITE DIFFERENCE

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

FINITE DIFFERENCE

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

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