

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: $y_i - \hat{y}_i$

RESIDUALS: $y_i - (a_0 + a_1 x_i)$

MINIMIZE: $S = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)^2$

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

STANDARD ERROR:

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

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

STANDARD DEVIATION:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-1}}$$

$$S_x = \sqrt{\frac{\sum x_i^2}{n-1}}$$

POLYNOMIAL QUADRATIC REGRESSION:

GOAL: MINIMIZE THE SUM OF THE SQUARES OF THE RESIDUALS

RESIDUAL: $y_i - (a_0 + a_1 x_i + a_2 x_i^2)$

MINIMIZE: $S = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$

COEFFICIENTS: $a_0 = \frac{\sum y_i - a_1 \sum x_i - a_2 \sum x_i^2}{n}$, $a_1 = \frac{\sum x_i y_i - \frac{(\sum x_i)(\sum y_i)}{n}}{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}$, $a_2 = \frac{\sum x_i^2 y_i - \frac{(\sum x_i^2)(\sum y_i)}{n} - \frac{(\sum x_i y_i)(\sum x_i)}{n}}{\sum x_i^4 - \frac{(\sum x_i^2)^2}{n} - \frac{(\sum x_i)^2 \sum x_i^2}{n}}$

INTERPOLATION

USE A POLYNOMIAL FIT:

LAGRANGE	DEGREE 1	DEGREE 2	DEGREE n
2 PTS 1 INTERVAL $P(x) = a_0 + a_1 x$	2 POINTS 1 INTERVAL $P(x) = a_0 + a_1 x$	3 PTS 2 INTERVALS $P(x) = a_0 + a_1 x + a_2 x^2$	n+1 PTS n INTERVALS $P(x) = a_0 + a_1 x + a_2 x^2 + \dots + a_n x^n$
CURVES	—	—	—
n=1	—	—	—
n=2	—	—	—
n=3	—	—	—
n=4	—	—	—
n=5	—	—	—

SPINES:
 $P_n = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i}$

ODE'S

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

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

CLASSIC 4th ORDER RUNGE-KUTTA:
 $y_{i+1} = y_i + \Delta x \left[\frac{1}{4} k_1 + \frac{3}{4} k_2 \right]$

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

EIGEN VALUES

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

CHARACTERISTIC EQUATION:
 $\det(A - \lambda I) = 0 \Rightarrow (a-\lambda)(d-\lambda) - bc = 0$

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

EIGEN VECTORS:
 $(A - \lambda I) \mathbf{v} = \mathbf{0}$

PDE'S

FINITE DIFFERENCE METHOD:

HEAT CONDUCTION:
 $\frac{\partial^2 T}{\partial x^2} = 0$

HEAT CONDUCTION WITH SOURCE:
 $\frac{\partial^2 T}{\partial x^2} = -q$

HEAT CONDUCTION WITH CONVECTION:
 $\frac{\partial T}{\partial x} = h(T - T_\infty)$

HEAT CONDUCTION WITH RADIATION:
 $\frac{\partial T}{\partial x} = \epsilon \sigma (T^4 - T_\infty^4)$

RIGHT BOUNDARY B.C.:
 $\frac{\partial T}{\partial x} = 0$

LEFT BOUNDARY B.C.:
 $\frac{\partial T}{\partial x} = 0$

TOP BOUNDARY B.C.:
 $T = T_0$

BOTTOM BOUNDARY B.C.:
 $T = T_0$

CONCENTRATED HEAT SOURCE:
 $\frac{\partial^2 T}{\partial x^2} = -q$

[A] MATRIX:

INTERNAL NODES:
 $4T_{i,j} - T_{i,j-1} - T_{i,j+1} - T_{i-1,j} - T_{i+1,j} = -2\Delta x^2 q$

TOP BOUNDARY:
 $4T_{1,j} - T_{1,j-1} - T_{1,j+1} - T_{2,j} = -2\Delta x^2 q$

BOTTOM BOUNDARY:
 $4T_{N,j} - T_{N,j-1} - T_{N,j+1} - T_{N-1,j} = -2\Delta x^2 q$

TRUNCATION ERROR:
 $\tau = \frac{f(x) - P(x)}{h^2}$

TRUNCATION ERROR FOR HEAT CONDUCTION:
 $\tau = \frac{1}{12} \Delta x^2 y''(x)$

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Duchi, Anna C. Gilbert**



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we need to know what we already know before looking further

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