Systemy CAD/CAE

Zadanie 2. *Mikołaj Wielgos* 24.10.2023

Parametry funkcji

```
knot_vectorx = [0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
28 29 30 31 32 32];
knot vectory = [0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
28 29 30 31 32 32];
weight_matrix = [
 10000000000101010100000000000011:
          10001000101010001010000011;
      1000101010000010101000001011;
      1010101000000101000001000101011;
      10101110111010101010111101111:
   000001010001010101010100000100011;
          1110101010111010111111111;
          101000001000101010001011:
    0000010000000000010100011;
      1 1 1 1 1 1 1 1 1 1 0
                  1011111101010
    10000000000010001000101000001011;
                  1010001000100011;
          11111011101010111010111111:
   0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 1 0 0 0 1 1;
     111101010111111111111010111111;
    1000001010100000101000100010
   010101011101010101010111111111111;
   000101000101010101010000000000011;
                    1011101010
                  1 0
      101000000000101010001010
```

Zmiany w funkcji wyliczającej

```
% ..Other code

% Compute the coefficient matrix M
for i = 1:nrx
    for j = 1:nry
        spline1 = compute_spline(knot_vectorx, px, i, X) .*

compute_spline(knot_vectory, py, j, Y);
        M = M + weight_matrix(i, j) * spline1;
    end
end

% Other code..
```





