

Figure 1: Quadratic concave function $C_1(x_1, x_2)$.

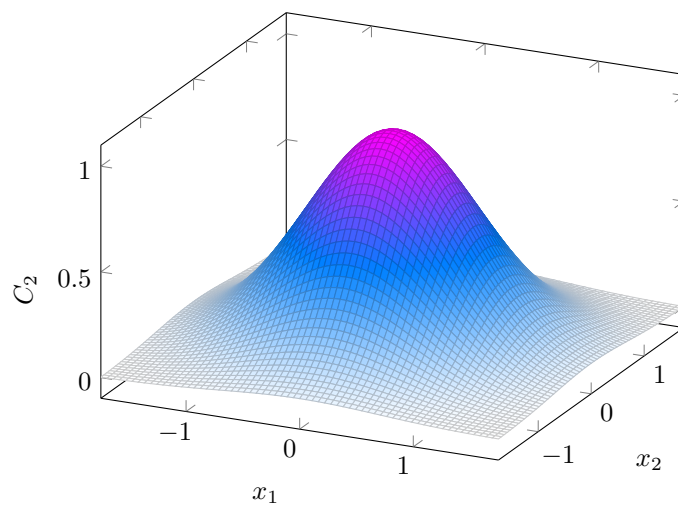


Figure 2: Two variable Gaussian function $C_2(x_1, x_2)$.

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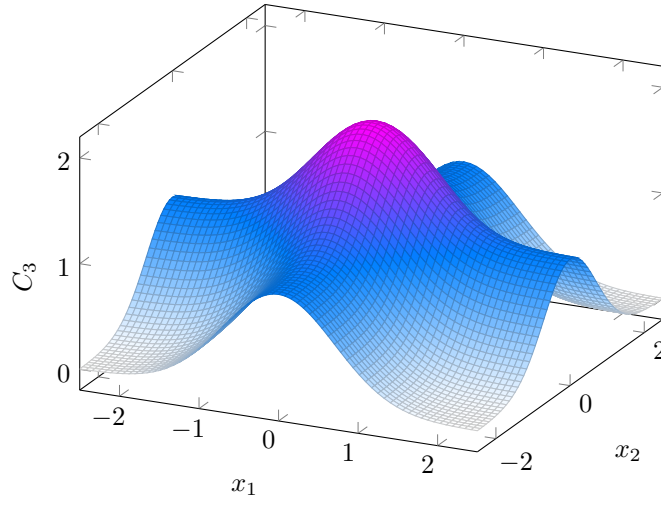


Figure 3: Modified version of Gaussian function $C_3(x_1, x_2)$.

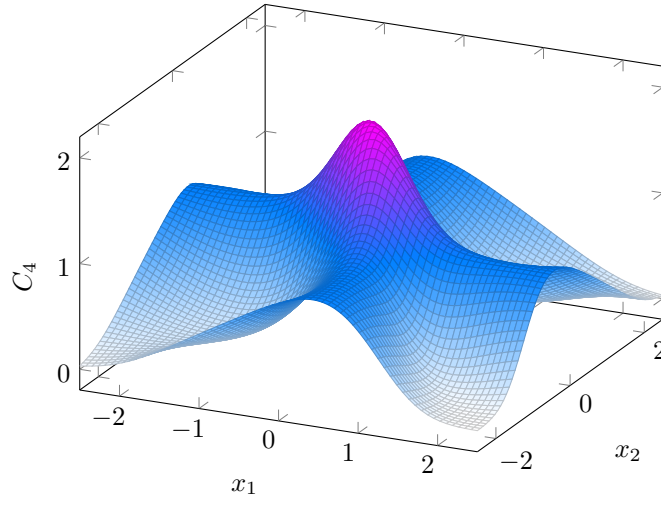


Figure 4: The proposed function $C_4(x_1, x_2)$ for $a = 0.49$.

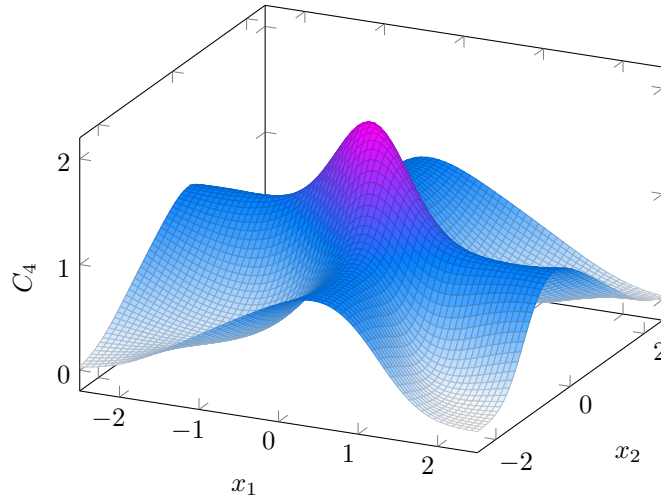


Figure 5: The proposed function $C_4(x_1, x_2)$ for $a = 0.49$.

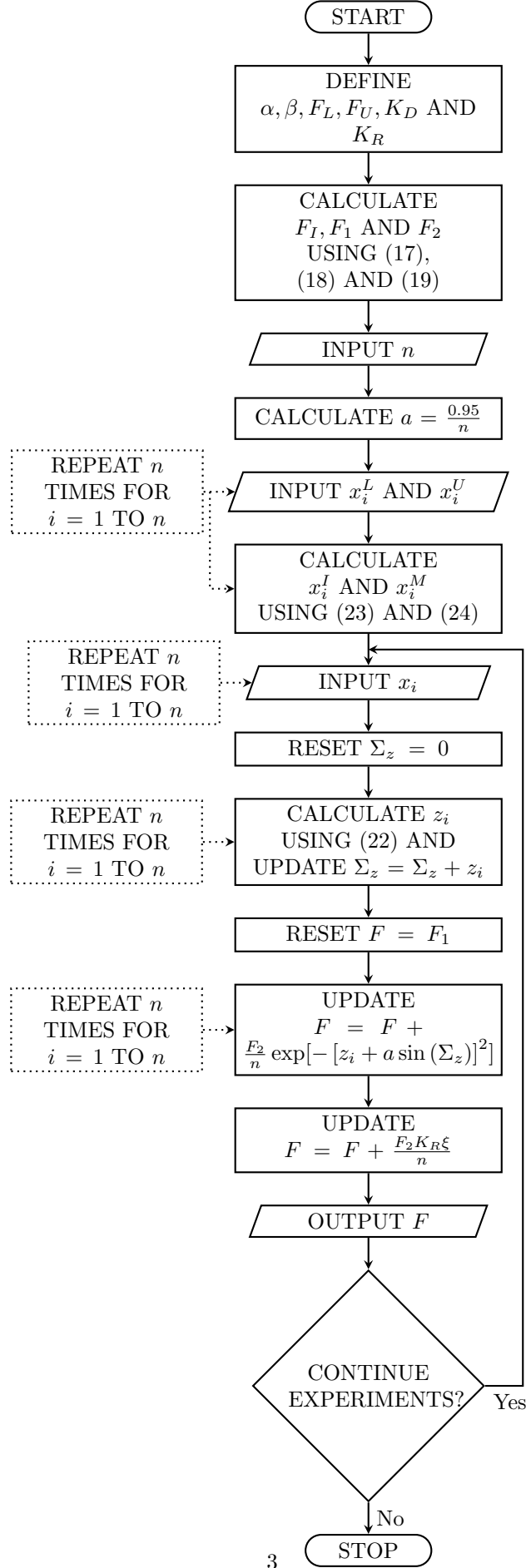


Figure 6: Flowchart of the proposed algorithm

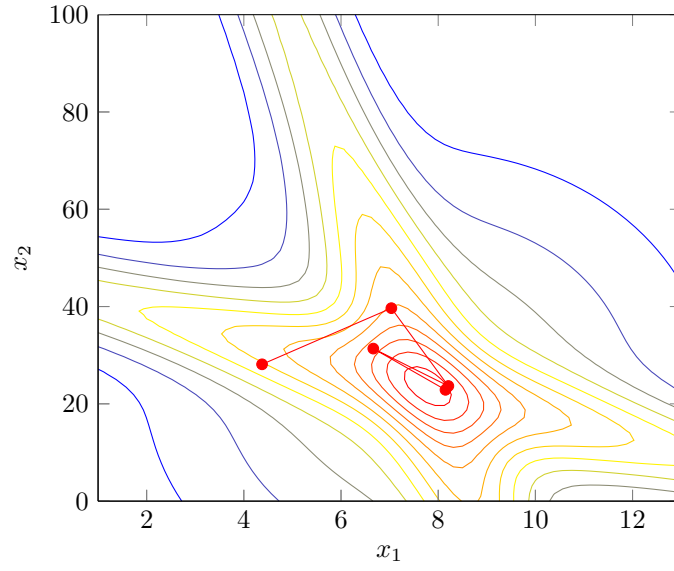


Figure 7: Contour plot of F with the constants given in Section ?? superimposed with the RSM results.

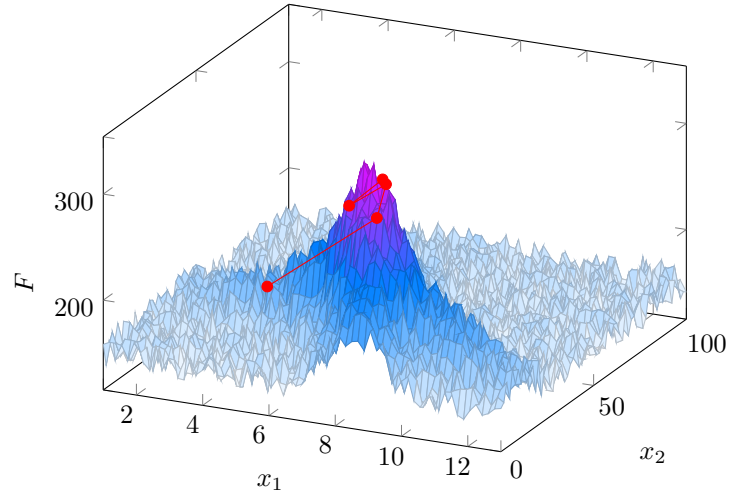


Figure 8: The proposed function $C_4(x_1, x_2)$ for $a = 0.49$.

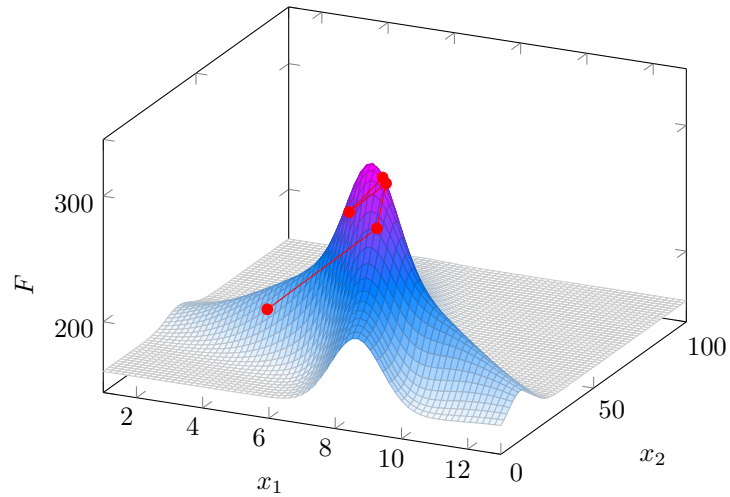


Figure 9: The proposed function $C_4(x_1, x_2)$ for $a = 0.49$.

<https://skgadi.com/tools/multifactorial-experiment-simulator/>

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