Optimization

Rodrigo Caye Daudt

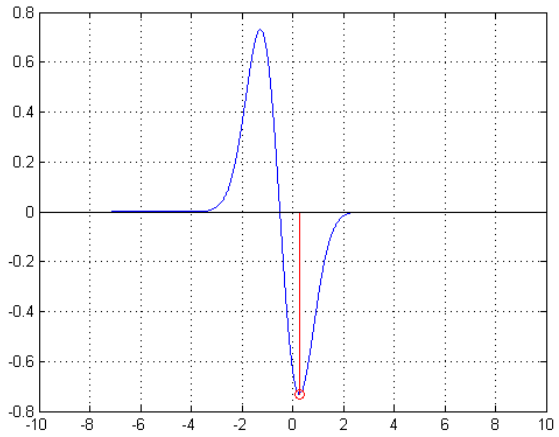


Fig. 1.

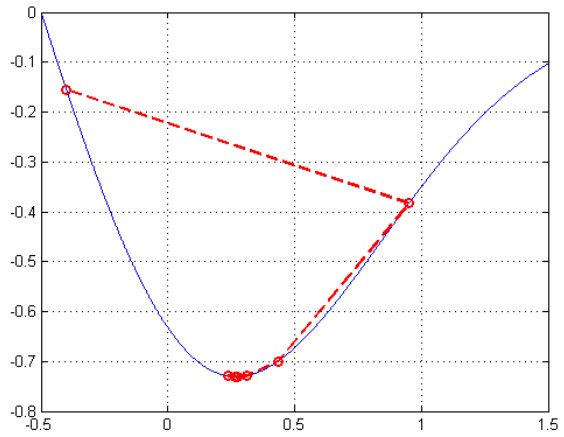


Fig. 2.

***Abstract*—This describes the implementation and results of several minimization/optimization methods. The methods are divided in three groups: 1D, 2D, and ND inputs.**

I. Introduction

FUNCTION optimization is a field of mathematics that deals with the search of the input element of a function that yields the output that best conforms with some predefined criteria. This seach has many applications throughout different scientific fields, from economics to control engineering. Some applications of function minimization are the training of neural networks, simultaneos localization and mapping (SLAM), and real time optimization (RTO) control.

Several different methods of function optimization are presented in the following sections. These methods are described and compared, focusing on pratical aspects such as complexity, convergence issues and issues with logal minima.

II. Code Glossary

Text text

III. Minimization In 1D

Text text

IV. Minimization In 2D

A. 1

Aaa

B. 2

Aaa

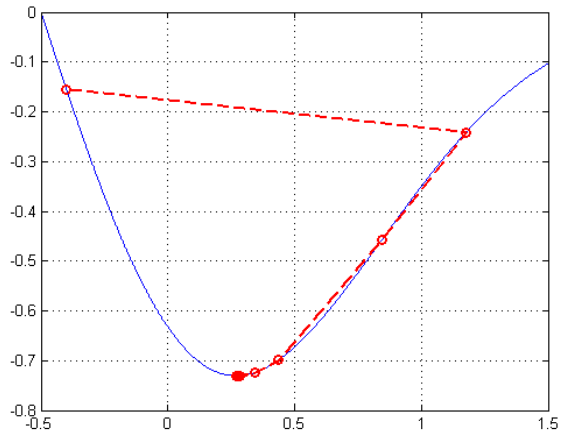


Fig. 3.

V. Minimization In nD

Text text

VI. Conclusion

The conclusion goes here.

References

[1] W. C. Jakes and D. C. Cox, *Microwave mobile communications*. Wiley-IEEE Press, 1994.

[2] B. P. Lathi, *Modern Digital and Analog Communication Systems 3e Osece*. Oxford university press, 1998.

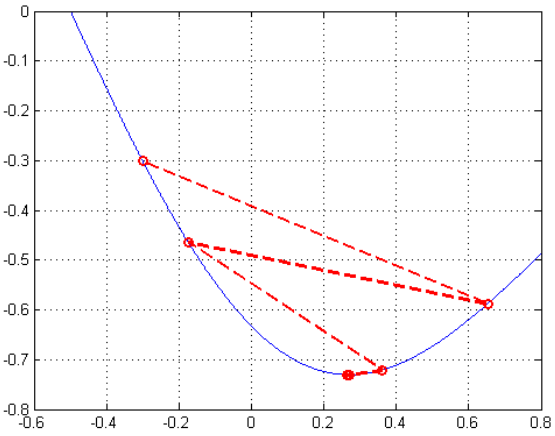


Fig. 4.

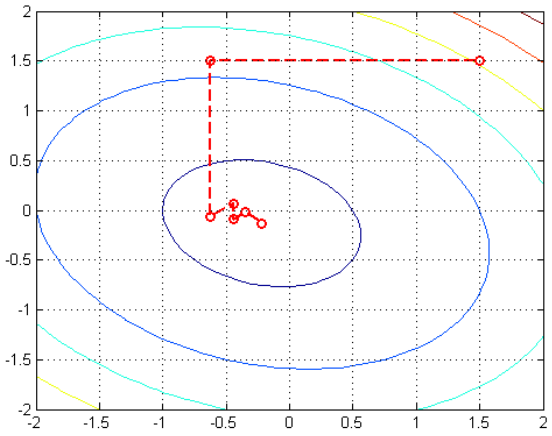


Fig. 7.

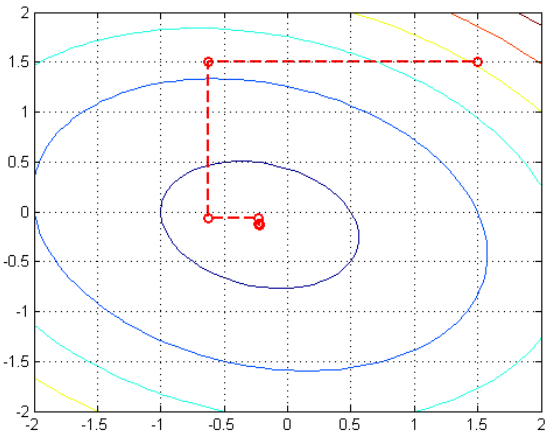


Fig. 5.

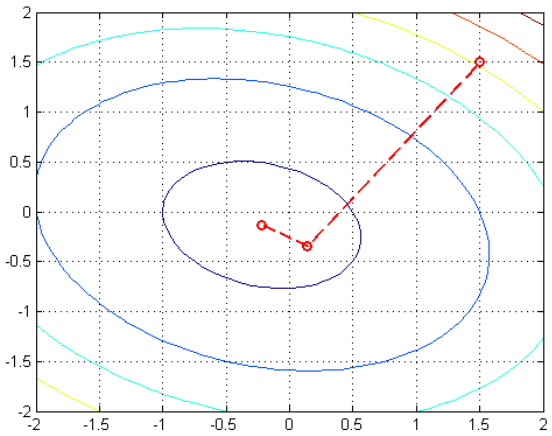


Fig. 8.

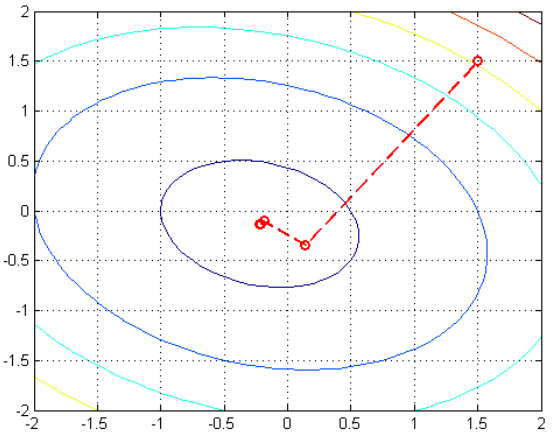


Fig. 6.

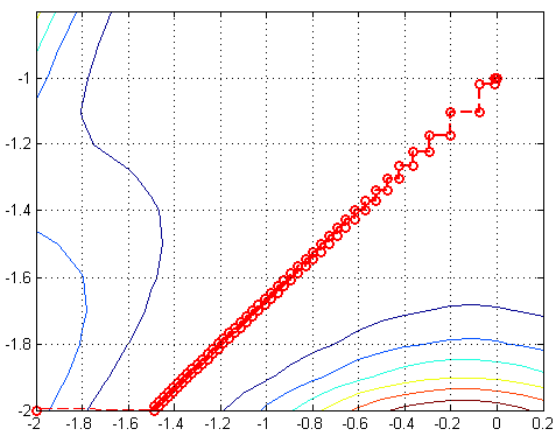


Fig. 9.

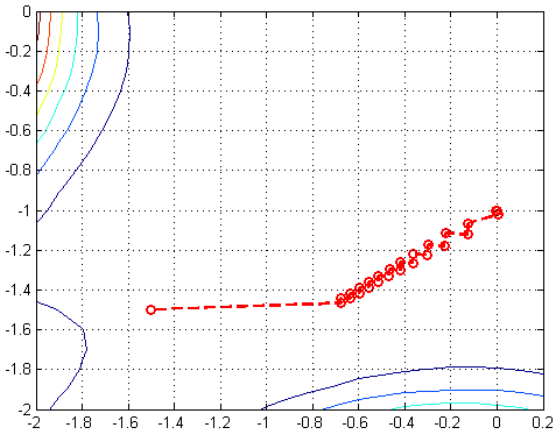
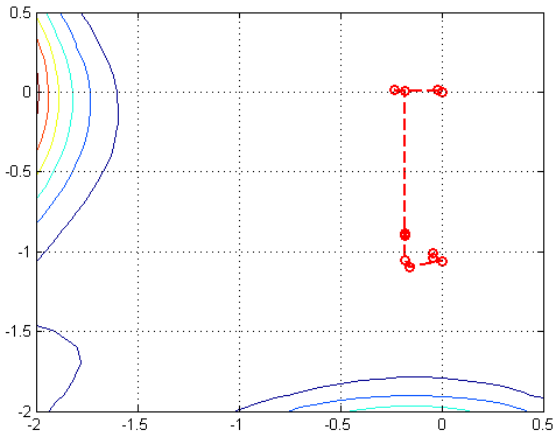


Fig. 10.



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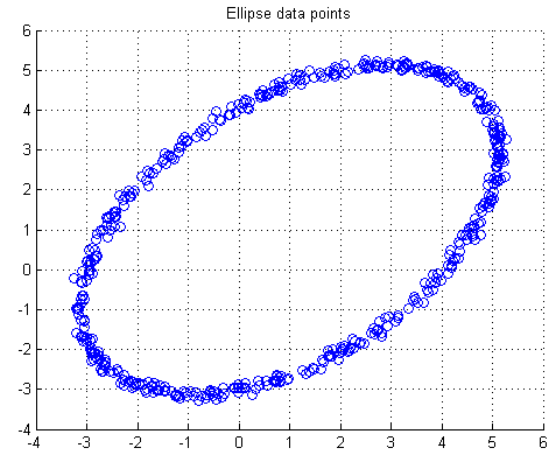

Fig. 12.

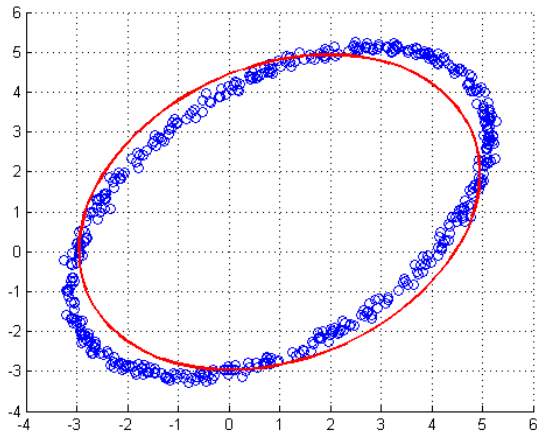

Fig. 13.

APPENDIX A
CODE

Appendix one text goes here.