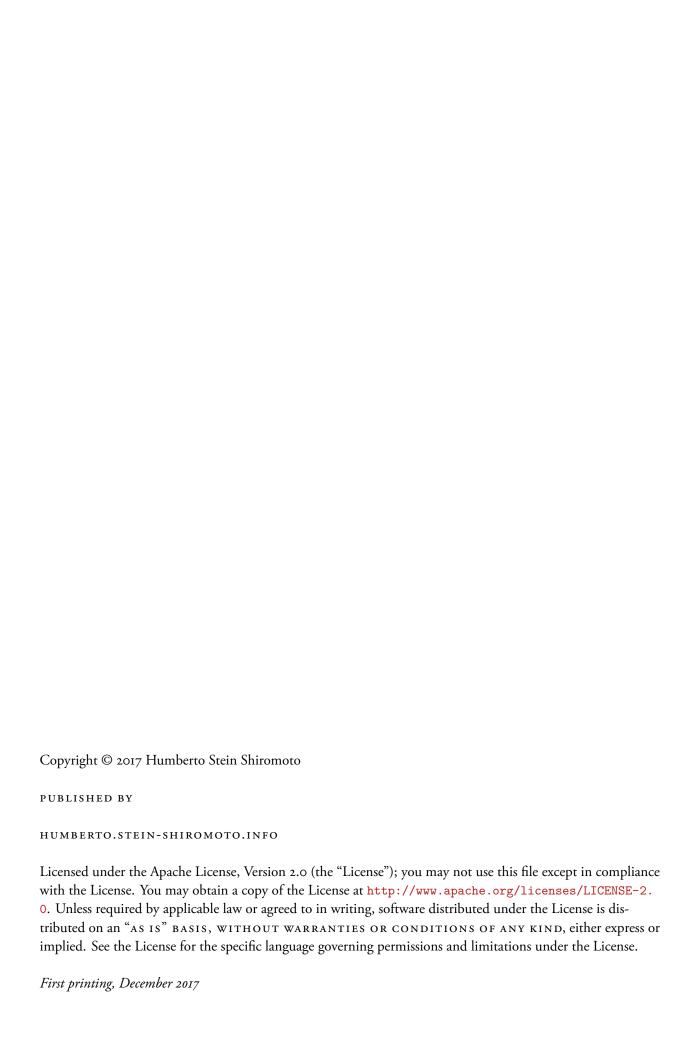
HUMBERTO STEIN SHIROMOTO

OPTIMISATION

The public is more familiar with bad design than good design. It is, in effect, conditioned to prefer
bad design, because that is what it lives with. The new becomes threatening, the old reassuring.
Paul Rand, Design, Form, and Chaos
La perfection est atteinte, non pas lorsquíl n'y a plus rien à ajouter, mais lorsquíl n'y a plus rien à retirer.
Antoine de Saint-Exupéry



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	Note use [Lib12] as main reference	

Part I

Convex Optimisation

1 | Linear Programming

2 | Convex programming



Infinite Dimensional

3 | Variational Analysis

A | Bibliography

[CE14] is a self-contained book. It presents the concepts of linear algebra used in the book. The book starts by with linear optimisation moving to cone and semidefinite optimisation. It also contains an introduction to solving algorithms and applications to machine learning, finance, control and engineering;

[Cla13] is a more theoretical book. It contains elements of functional analysis, nonsmooth analysis and optimisation (generalised gradients). The generality of the optimisation formulation is achieved with the use of calculus of variations;

[Lib12] is a comprehensive book on the optimisation. It starts the book by introducing finite and infinite-dimensional optimisation problems. The next subject is the calculus of variations, and optimal control.

[VB96]

References

- [CE14] G. Calafiore and L. El Ghaoui. Optimization Models. Cambridge University Press, 2014 (cit. on p. 17).
- [Cla13] F. H. Clarke. Functional Analysis, Calculus of Variations and Optimal Control. Vol. 264. Graduate Texts in Mathematics. Springer, 2013 (cit. on p. 17).
- D. Liberzon. Calculus of variations and optimial control: A [Lib12] concise introduction. Princeton University Press, 2012 (cit. on pp. 5, 17).
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- [CE14] G. Calafiore and L. El Ghaoui. *Optimization Models*. Cambridge University Press, 2014 (cit. on p. 17).
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