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Titolo	Advancing parametric optimization : on multiparametric linear complementarity problems with parameters in general locations // Nathan Adelgren
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-61821-8
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XII, 113 p. 8 illus., 7 illus. in color.)
Collana	SpringerBriefs in Optimization, , 2190-8354
Disciplina	016.5192
Soggetti	Mathematical optimization Geometry, Algebraic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Introduction -- 2. Background on mpLCP -- 3. Algebraic Properties of Invariancy Regions -- 4. Phase 2: Partitioning the Parameter Space -- 5. Phase 1: Determining an Initial Feasible Solution -- 6. Further Considerations -- 7. Assessment of Performance -- 8. Conclusion -- Appendix A. Tableaux for Example 2.1 -- Appendix B. Tableaux for Example 2.2 -- References.
Sommario/riassunto	The theory presented in this work merges many concepts from mathematical optimization and real algebraic geometry. When unknown or uncertain data in an optimization problem is replaced with parameters, one obtains a multi-parametric optimization problem whose optimal solution comes in the form of a function of the parameters. The theory and methodology presented in this work allows one to solve both Linear Programs and convex Quadratic Programs containing parameters in any location within the problem data as well as multi-objective optimization problems with any number of convex quadratic or linear objectives and linear constraints. Applications of these classes of problems are extremely widespread, ranging from business and economics to chemical and environmental engineering. Prior to this work, no solution procedure existed for these general classes of problems except for the recently proposed algorithms.

2. Record Nr.	UNINA9910438224803321
Titolo	The structural links between ecology, evolution and ethics : the virtuous epistemic circle / / Donato Bergandi, editor
Pubbl/distr/stampa	Dordrecht, : Springer, 2013
ISBN	1-299-19814-7 94-007-5067-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (193 p.)
Collana	Boston studies in the philosophy of science ; ; v.296
Altri autori (Persone)	BergandiDonato
Disciplina	576.809
Soggetti	Ecology - Philosophy Evolution (Biology) - Philosophy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	List of Figures -- List of Contributors -- Acknowledgements -- 1 Ecology, Evolution, Ethics: In Search of a Meta-Paradigm - An Introduction; Donato Bergandi -- 2 Evolution Versus Creation: A Sibling Rivalry?; Michael Ruse -- 3 Evolution and Chance; Jean Gayon -- 4 Some Conceptions of Time in Ecology; Jean-Marc Drouin -- 5 Facts, Values, and Analogies: A Darwinian Approach to Environmental Choice; Bryan G. Norton -- 6 Towards EcoEvoEthics; Patrick Blandin -- 7 Ecology and Moral Ontology; John Baird Callicott -- 8 Animal Rights and Environmental Ethics; Tom Regan -- 9 Reconciling Individualist and Deeper Environmentalist Theories? An Exploration; Robin Attfield -- 10 Two Philosophies of the Environmental Crisis; Catherine Larrère 11 Epilogue : The Epistemic and Practical Circle in an Evolutionary, Ecologically Sustainable Society; Donato Bergandi -- Index.
Sommario/riassunto	Evolutionary biology, ecology and ethics: at first glance, three different objects of research, three different worldviews and three different scientific communities. In reality, there are both structural and historical links between these disciplines. First, some topics are obviously common across the board. Second, the emerging need for environmental policy management has gradually but radically changed the relationship between these disciplines. Over the last decades in particular, there has emerged a need for an interconnecting meta-

paradigm that integrates more strictly evolutionary studies, biodiversity studies and the ethical frameworks that are most appropriate for allowing a lasting co-evolution between natural and social systems. Today such a need is more than a mere luxury, it is an epistemological and practical necessity. In short, the authors of this volume address some of the foundational themes that interconnect evolutionary studies, ecology and ethics. Here they have chosen to analyze a topic using one of these specific disciplines as a kind of epistemological platform with specific links to topics from one or both of the remaining disciplines.

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