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Titolo	AT-EQUAL 2009 : 2009 ECSIS Symposium on Advanced Technologies for Enhanced Quality of Life (LAB-RS and ARTIPED 2009) : proceedings, 22-26 July 2009, Iasi, Romania
Pubbl/distr/stampa	[Place of publication not identified], : IEEE Computer Society, 2009
ISBN	1-5090-7180-6
Soggetti	Adaptive control systems - Control systems Robots Robotics Biomechanics Mechanical Engineering Engineering & Applied Sciences Mechanical Engineering - General
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph

2. Record Nr.	UNINA9910437864403321
Autore	Lange Kenneth
Titolo	Optimization // by Kenneth Lange
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
ISBN	1-4614-5838-2
Edizione	[2nd ed. 2013.]
Descrizione fisica	1 online resource (540 p.)
Collana	Springer Texts in Statistics, , 2197-4136 ; ; 95
Disciplina	519.3
Soggetti	Statistics Mathematical optimization Operations research Statistical Theory and Methods Optimization Operations Research and Decision Theory Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Elementary Optimization -- The Seven C's of Analysis -- The Gauge Integral -- Differentiation -- Karush-Kuhn-Tucker Theory -- Convexity -- Block Relaxation -- The MM Algorithm -- The EM Algorithm -- Newton's Method and Scoring -- Conjugate Gradient and Quasi-Newton -- Analysis of Convergence -- Penalty and Barrier Methods -- Convex Calculus -- Feasibility and Duality -- Convex Minimization Algorithms -- The Calculus of Variations -- Appendix: Mathematical Notes -- References -- Index.
Sommario/riassunto	Finite-dimensional optimization problems occur throughout the mathematical sciences. The majority of these problems cannot be solved analytically. This introduction to optimization attempts to strike a balance between presentation of mathematical theory and development of numerical algorithms. Building on students' skills in calculus and linear algebra, the text provides a rigorous exposition without undue abstraction. Its stress on statistical applications will be especially appealing to graduate students of statistics and biostatistics. The intended audience also includes students in applied mathematics,

computational biology, computer science, economics, and physics who want to see rigorous mathematics combined with real applications. In this second edition, the emphasis remains on finite-dimensional optimization. New material has been added on the MM algorithm, block descent and ascent, and the calculus of variations. Convex calculus is now treated in much greater depth. Advanced topics such as the Fenchel conjugate, subdifferentials, duality, feasibility, alternating projections, projected gradient methods, exact penalty methods, and Bregman iteration will equip students with the essentials for understanding modern data mining techniques in high dimensions.
