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Titolo	Using evidence of student learning to improve higher education / / George D. Kuh [and six others]
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine generated contents note: Preface ix Acknowledgments xvii About the Authors xix 1. From Compliance to Ownership: Why and How Colleges and Universities Assess Student Learning 1 Stanley O. Ikenberry and George D. Kuh PART ONE What Works? Finding and Using Evidence 2. Evidence of Student Learning: What Counts and What Matters for Improvement 27 Pat Hutchings, Jillian Kinzie, and George D. Kuh 3. Fostering Greater Use of Assessment Results: Principles for Effective Practice 51 Jillian Kinzie, Pat Hutchings, and Natasha A. Jankowski 4. Making Assessment Consequential: Organizing to Yield Results 73 Jillian Kinzie and Natasha A. Jankowski PART TWO Who Cares? Engaging Key Stakeholders 5. Faculty and Students: Assessment at the Intersection of Teaching and Learning 95 Timothy Reese Cain and Pat Hutchings 6. Leadership in Making Assessment Matter 117 Peter T. Ewell and Stanley O. Ikenberry 7. Accreditation as Opportunity: Serving Two Purposes with Assessment 146 Peter T. Ewell and Natasha A. Jankowski 8. The Bigger Picture: Student Learning Outcomes Assessment and External Entities 160 Jillian Kinzie, Stanley O.

Ikenberry, and Peter T. Ewell PART THREE What Now? Focusing Assessment on Learning 9. Assessment and Initiative Fatigue: Keeping the Focus on Learning 183 George D. Kuh and Pat Hutchings 10. From Compliance Reporting to Effective Communication: Assessment and Transparency 201 Natasha A. Jankowski and Timothy Reese Cain 11. Making Assessment Matter 220 George D. Kuh, Stanley O. Ikenberry, Natasha A. Jankowski, Timothy Reese Cain, Peter T. Ewell, Pat Hutchings, and Jillian Kinzie References 237 Appendix A: NILOA National Advisory Panel 261 Appendix B: NILOA Staff, 2008 to 2014 263 Index 265 .

**Sommario/riassunto**

"Offers a fresh and strategic approach to the processes by which evidence about student learning is obtained and used to inform efforts to improve teaching, learning, and decision-making"--

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Gates Susan M. <1968->

Preparing principals to raise student achievement : implementation and effects of the New Leaders program in ten districts

RAND Corporation, 2014

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Nota di contenuto	Research methods -- Overview of the new leaders program and district partnership approach -- New leaders partnerships -- Analysis of impacts on student achievement -- Factors Associated with new leaders program effects -- Conclusion.
Sommario/riassunto	New Leaders is a nonprofit organization that partners with school districts to prepare and support principals. This report describes how the New Leaders program was implemented in partner districts, and it provides evidence of the effect that New Leaders has on student achievement.
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Autore	Aggarwal Charu C.
Titolo	Linear Algebra and Optimization for Machine Learning : A Textbook // by Charu C. Aggarwal
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
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Descrizione fisica	1 online resource (507 pages) : illustrations
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Nota di contenuto	Preface -- 1 Linear Algebra and Optimization: An Introduction -- 2 Linear Transformations and Linear Systems -- 3 Eigenvectors and Diagonalizable Matrices -- 4 Optimization Basics: A Machine Learning View -- 5 Advanced Optimization Solutions -- 6 Constrained

**Sommario/riassunto**

This textbook introduces linear algebra and optimization in the context of machine learning. Examples and exercises are provided throughout the book. A solution manual for the exercises at the end of each chapter is available to teaching instructors. This textbook targets graduate level students and professors in computer science, mathematics and data science. Advanced undergraduate students can also use this textbook. The chapters for this textbook are organized as follows: 1. Linear algebra and its applications: The chapters focus on the basics of linear algebra together with their common applications to singular value decomposition, matrix factorization, similarity matrices (kernel methods), and graph analysis. Numerous machine learning applications have been used as examples, such as spectral clustering, kernel-based classification, and outlier detection. The tight integration of linear algebra methods with examples from machine learning differentiates this book from generic volumes on linear algebra. The focus is clearly on the most relevant aspects of linear algebra for machine learning and to teach readers how to apply these concepts. 2. Optimization and its applications: Much of machine learning is posed as an optimization problem in which we try to maximize the accuracy of regression and classification models. The “parent problem” of optimization-centric machine learning is least-squares regression. Interestingly, this problem arises in both linear algebra and optimization, and is one of the key connecting problems of the two fields. Least-squares regression is also the starting point for support vector machines, logistic regression, and recommender systems. Furthermore, the methods for dimensionality reduction and matrix factorization also require the development of optimization methods. A general view of optimization in computational graphs is discussed together with its applications to back propagation in neural networks. A frequent challenge faced by beginners in machine learning is the extensive background required in linear algebra and optimization. One problem is that the existing linear algebra and optimization courses are not specific to machine learning; therefore, one would typically have to complete more course material than is necessary to pick up machine learning. Furthermore, certain types of ideas and tricks from optimization and linear algebra recur more frequently in machine learning than other application-centric settings. Therefore, there is significant value in developing a view of linear algebra and optimization that is better suited to the specific perspective of machine learning.

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