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MATLAB Machine Learning

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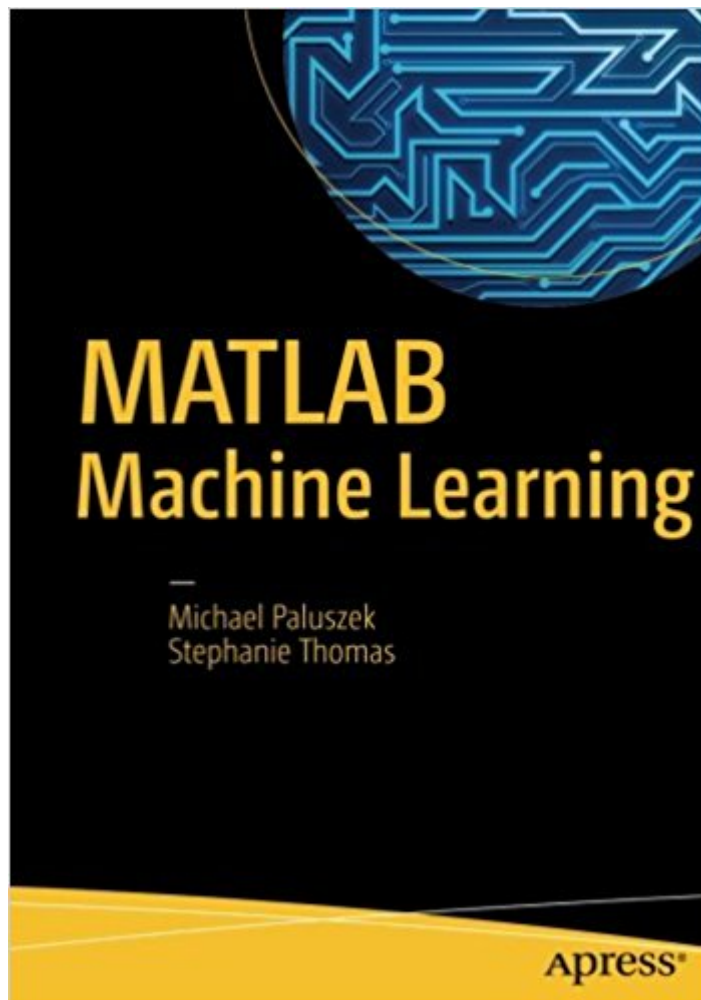
Synopsis

This book is a comprehensive guide to machine learning with worked examples in MATLAB. It Â starts with an overview of the history of Artificial Intelligence and automatic control and how the field of machine learning grew from these. It provides descriptions of all major areas in machine learning.The book reviews commercially available packages for machine learning and shows how they fit into the field. The book then shows how MATLAB can be used to solve machine learning problems and how MATLAB graphics can enhance the programmerÃ¢ ¬â„¢s understanding of the results and help users of their software grasp the results.Machine Learning can be very mathematical. The mathematics for each area is introduced in a clear and concise form so that even casual readers can understand the math. Readers from all areas of engineering will see connections to what they know and will learn new technology.The book then provides complete solutions in MATLAB for several important problems in machine learning including face identification, autonomous driving, and data classification. Full source code is provided for all of the examples and applications in the book.What you'll learn:An overview of the field of machine learningCommercial and open source packages in MATLABHow to use MATLAB for programming and building machine learning applicationsMATLAB graphics for machine learningPractical real world examples in MATLAB for major applications of machine learning in big dataWho is this book for:The primary audiences are engineers and engineering students wanting a comprehensive and practical introduction to machine learning.

Book Information

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Customer Reviews

Michael Paluszek is the co-author of MATLAB Recipes published by Apress. He is President of Princeton Satellite Systems, Inc. (PSS) in Plainsboro, New Jersey. Mr. Paluszek founded PSS in 1992 to provide aerospace consulting services. He used MATLAB to develop the control system and simulation for the Indostar-1 geosynschronous communications satellite, resulting in the launch of PSS' first commercial MATLAB toolbox, the Spacecraft Control Toolbox, in 1995. Since then he has developed toolboxes and software packages for aircraft, submarines, robotics, and fusion propulsion, resulting in PSS' current extensive product line. He is currently leading an Army research contract for precision attitude control of small satellites and working with the Princeton Plasma Physics Laboratory on a compact nuclear fusion reactor for energy generation and propulsion. Prior to founding PSS, Mr. Paluszek was an engineer at GE Astro Space in East Windsor, NJ. At GE he designed the Global Geospace Science Polar despun platform control system and led the design of the GPS IIR attitude control system, the Inmarsat-3 attitude control systems and the Mars Observer delta-V control system, leveraging MATLAB for control design. Mr. Paluszek also worked on the attitude determination system for the DMSP meteorological satellites. Mr. Paluszek flew communication satellites on over twelve satellite launches, including the GSTAR III recovery, the first transfer of a satellite to an operational orbit using electric thrusters. At Draper Laboratory Mr. Paluszek worked on the Space Shuttle, Space Station and submarine navigation. His Space Station work included designing of Control Moment Gyro based control systems for attitude control. Mr. Paluszek received his bachelors in Electrical Engineering, and master's and engineerÃ¢â ¬â„¢s degrees in Aeronautics and Astronautics from the Massachusetts Institute of Technology. He is author of numerous papers and has over a dozen U.S. Patents.

In spite of I've read only 30% of this book for now I'm ready to write a review.1) It was supposed to be a book about Matlab in the first place... but there are a lot of general overview about Autonomous learning (ML in particular). TOO general and with a skewness towards adaptive controls for unknown reasons.2) Unnecessary long dummy printouts of some matlab functions. We can do it yourself in command line. There were no discussions about every line in those listings. So it's just a waste of pages(moneys).3) Too many info about graphics... how to draw box with poligons or how to apply texture to sphere. Maybe it is useful in some cases but the book calls Machine Learning... not a Graphics in Matlab.4) Examples of matlab's code is inaccurate...if you try to type everything as is in most cases your code won't compile(Missing operators, wrong orientation of vectors...)I will return later and maybe add/fix some points.

Don't expect the on-line code to be complete or the examples to actually work. training and test code is missing for chapters 7 and 8, which is very disappointing.

it is useful to matlab users who know the concept of machine learningthere are matlab examples for classification, regression and so on

I do not recommend this book. The chapters/examples are poorly detailed, each followed by several pages of completely uncommented Matlab code. You will find better examples for each problem type with a simple Google search.

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