Record Nr. UNINA9910807623003321 Machine learning applications in software engineering / / editors, Du **Titolo** Zhang, Jeffrey J.P. Tsai Pubbl/distr/stampa Hackensack, N.J.; Hong Kong,: World Scientific, c2005 **ISBN** 1-281-37255-2 9786611372552 981-256-927-8 Edizione [1st ed.] Descrizione fisica 1 online resource (367 p.) Collana Series on software engineering and knowledge engineering;; v. 16 ZhangDu Altri autori (Persone) TsaiJeffrey J.-P Disciplina 006.31 Soggetti Software engineering Computer software - Quality control Computer software - Evaluation Machine learning Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references (p. 345-355) and index. Nota di contenuto ACKNOWLEDGMENT; TABLE OF CONTENTS; Chapter 1 Introduction to Machine Learning and Software Engineering; Chapter 2 ML Applications in Prediction and Estimation; Chapter 3 ML Applications in Property and Model Discovery; Chapter 4 ML Applications in Transformation; Chapter 5 ML Applications in Generation and Synthesis; Chapter 6 ML Applications in Reuse; Chapter 7 ML Applications in Requirement Acquisition; Chapter 8 ML Applications in Management of Development Knowledge: Chapter 9 Guidelines and Conclusion: References Sommario/riassunto Machine learning deals with the issue of how to build computerprograms that improve their performance at some tasks throughexperience. Machine learning algorithms have proven to be of greatpractical value in a variety of application domains. Not surprisingly, the field of software engineering turns out to be a fertile groundwhere many software development and maintenance tasks could beformulated as learning problems and approached in terms of learningalgorithms.