1. Record Nr. UNINA9910349316603321

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Titolo	Effective Statistical Learning Methods for Actuaries III : Neural Networks and Extensions / / by Michel Denuit, Donatien Hainaut, Julien Trufin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	9783030258276 3030258270
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (258 pages) : illustrations
Collana	Springer Actuarial Lecture Notes, , 2523-3297
Disciplina	368.01
Soggetti	Actuarial science Statistics Neural networks (Computer science) Actuarial Mathematics Statistics in Business, Management, Economics, Finance, Insurance Mathematical Models of Cognitive Processes and Neural Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface. - Feed-forward Neural Networks. - Byesian Neural Networks and GLM. - Deep Neural Networks -- Dimension-Reduction with Forward Neural Nets Applied to Mortality. - Self-organizing Maps and k-means clusterin in non Life Insurance. - Ensemble of Neural Networks -- Gradient Boosting with Neural Networks. - Time Series Modelling with Neural Networks -- References.
Sommario/riassunto	Artificial intelligence and neural networks offer a powerful alternative to statistical methods for analyzing data. This book reviews some of the most recent developments in neural networks, with a focus on applications in actuarial sciences and finance. The third volume of the trilogy simultaneously introduces the relevant tools for developing and analyzing neural networks, in a style that is mathematically rigorous and yet accessible. The authors proceed by successive generalizations, requiring of the reader only a basic knowledge of statistics. Various topics are covered from feed-forward networks to deep learning, such as Bayesian learning, boosting methods and Long Short Term Memory

models. All methods are applied to claims, mortality or time-series forecasting. This book is written for masters students in the actuarial sciences and for actuaries wishing to update their skills in machine learning. .