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Titolo	A statistical approach to neural networks for pattern recognition [[electronic resource] /] / Robert A. Dunne
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ISBN	1-280-93517-0 9786610935178 0-470-14815-2 0-470-14814-4
Descrizione fisica	1 online resource (289 p.)
Collana	Wiley series in computational statistics
Disciplina	006.32
Soggetti	Perceptrons Neural networks (Computer science) Electronic books.
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 and index.
Nota di contenuto	A Statistical Approach to Neural Networks for Pattern Recognition; Contents; Notation and Code Examples; Preface; Acknowledgments; 1 Introduction; 1.1 The perceptron; 2 The Multi-Layer Perceptron Model; 2.1 The multi-layer perceptron (MLP); 2.2 The first and second derivatives; 2.3 Additional hidden layers; 2.4 Classifiers; 2.5 Complements and exercises; 3 Linear Discriminant Analysis; 3.1 An alternative method; 3.2 Example; 3.3 Flexible and penalized LDA; 3.4 Relationship of MLP models to LDA; 3.5 Linear classifiers; 3.6 Complements and exercises; 4 Activation and Penalty Functions 4.1 Introduction4.2 Interpreting outputs as probabilities; 4.3 The finuniversal approximatorfl and consistency; 4.4 Variance and bias; 4.5 Binary variables and logistic regression; 4.6 MLP models and cross- entropy; 4.7 A derivation of the softmax activation function; 4.8 The finaturalfl pairing and A,; 4.9 A comparison of least squares and cross- entropy; 4.10 Conclusion; 4.11 Complements and exercises; 5 Model Fitting and Evaluation; 5.1 Introduction; 5.2 Error rate estimation; 5.3 Model selection for MLP models; 5.4 Penalized training; 5.5 Complements and exercises; 6 The Task-based MLP

6.1 Introduction; 6.2 The task-based MLP; 6.3 Pruning algorithms; 6.4 Interpreting and evaluating task-based MLP models; 6.5 Evaluating the models; 6.6 Conclusion; 6.7 Complements and exercises; 7 Incorporating Spatial Information into an MLP Classifier; 7.1 Allocation and neighbor information; 7.2 Markov random fields; 7.3 Hopfield networks; 7.4 MLP neighbor models; 7.5 Sequential updating; 7.6 Example - MartinTMs farm; 7.7 Conclusion; 7.8 Complements and exercises; 8 Influence Curves for the Multi-layer Perceptron Classifier; 8.1 Introduction; 8.2 Estimators; 8.3 Influence curves; 8.4 M-estimators; 8.5 The MLP; 8.6 Influence curves for pc; 8.7 Summary and Conclusion; 9 The Sensitivity Curves of the MLP Classifier; 9.1 Introduction; 9.2 The sensitivity curve; 9.3 Some experiments; 9.4 Discussion; 9.5 Conclusion; 10 A Robust Fitting Procedure for MLP Models; 10.1 Introduction; 10.2 The effect of a hidden layer; 10.3 Comparison of MLP with robust logistic regression; 10.4 A robust MLP model; 10.5 Diagnostics; 10.6 Conclusion; 10.7 Complements and exercises; 11 Smoothed Weights; 11.1 Introduction; 11.2 MLP models; 11.3 Examples; 11.4 Conclusion; 11.5 Complements and exercises; 12 Translation Invariance; 12.1 Introduction; 12.2 Example 1; 12.3 Example 2; 12.4 Example 3; 12.5 Conclusion; 13 Fixed-slope Training; 13.1 Introduction; 13.2 Strategies; 13.3 Fixing or O; 13.4 Example 1; 13.5 Example 2; 13.6 Discussion; Bibliography; Appendix A: Function Minimization; A.1 Introduction; A.2 Back-propagation; A.3 Newton-Raphson; A.4 The method of scoring; A.5 Quasi-Newton; A.6 Conjugate gradients; A.7 Scaled conjugate gradients; A.8 Variants on vanilla feedback-propagation; A.9 Line search; A.10 The simplex algorithm; A.11 Implementation; A.12 Examples

## Sommario/riassunto

An accessible and up-to-date treatment featuring the connection between neural networks and statistics. A Statistical Approach to Neural Networks for Pattern Recognition presents a statistical treatment of the Multilayer Perceptron (MLP), which is the most widely used of the neural network models. This book aims to answer questions that arise when statisticians are first confronted with this type of model, such as: How robust is the model to outliers? Could the model be made more robust? Which points will have a high leverage? What are good starting values for the fitting algorithm?

2.	Record Nr.	UNISALENTO991002075139707536
	Titolo	Anarchici e anarchia nel mondo contemporaneo : atti del convegno : Torino, 5, 6 e 7 dicembre 1969 / promosso dalla Fondazione Luigi Einaudi
	Pubbl/distr/stampa	Torino : Fondazione Luigi Einaudi, 1971
	Descrizione fisica	654 p. ; 25 cm
	Collana	Studi ; 11
	Altri autori (Enti)	Fondazione Luigi Einaudiauthor
	Disciplina	321.7
	Soggetti	Anarchia
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
3.	Record Nr.	UNINA9910788235403321
	Autore	Ueda Kenichi
	Titolo	Life Expectancy and Income Convergence in the World : : A Dynamic General Equilibrium Analysis / / Kenichi Ueda
	Pubbl/distr/stampa	Washington, D.C. : , : International Monetary Fund, , 2008
	ISBN	1-4623-0030-8 1-4527-5311-3 1-282-84109-2 9786612841095 1-4518-7016-7
	Descrizione fisica	1 online resource (36 p.)
	Collana	IMF Working Papers IMF working paper ; ; WP/08/158
	Disciplina	612.68
	Soggetti	Life expectancy - Econometric models Income - Econometric models Cost and standard of living - Econometric models Convergence (Economics) - Econometric models Insurance Labor Macroeconomics Human Capital

Skills  
Occupational Choice  
Labor Productivity  
Health: General  
Aggregate Factor Income Distribution  
Macroeconomics: Consumption  
Saving  
Wealth  
Insurance Companies  
Actuarial Studies  
Labour  
income economics  
Health economics  
Insurance & actuarial studies  
Human capital  
Health  
Income  
Consumption  
Economics  
United States

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Contents; I. Introduction; II. Model and Quantitative Results; A. Technology and Preference; B. Representative Agent; C. Neutrality of Longevity under Neoclassical Assumptions; D. Positive Value of Life with Costly Human Capital Transfer; III. Quantitative Assessment; A. Computable Form; B. Benchmark Parameter Values; C. Dynastic General Equilibrium Value of Life; D. Sensitivity Analysis; E. Income Convergence; IV. Case and Imperfect Altruism; V. Concluding Remarks; Reference; Figures; 1. Evolution of Life Expectancy; Tables; 1. Parameter Values; 2. Benchmark Quantitative Assessment 3. Sensitivity Analysis 4. Convergence of Income and Full Income; Appendices; I. Solutions; A. Optimal H/K Ratio; B. Euler Equation; II. Imperfect Altruism Case; A. Proof of Proposition 2; B. Proof of Proposition 3
Sommario/riassunto	There is world-wide convergence in life expectancy, despite little convergence in GDP per capita. If one values longer life much more than material happiness, the world living standards may this have already converged substantially. This paper introduces the concept of the dynastic general equilibrium value of life to measure welfare gains from the increase in life expectancy. A calibration study finds sizable welfare gains, but these gains hardly mitigate the large inequality among countries. A conventional GDP-based measure remains a good approximation for (non) convergence in world living standards, even when adjusted for changes in life expectancy.