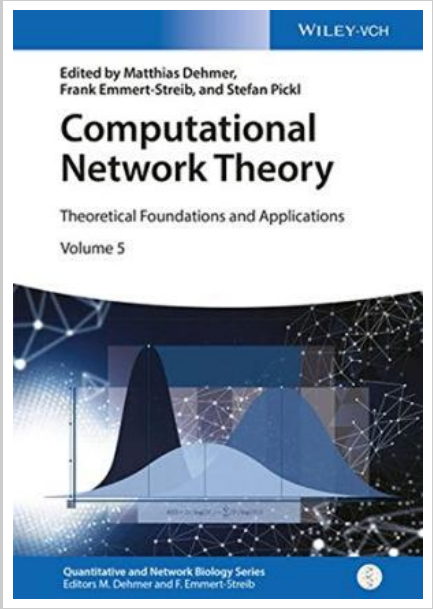

Computational Network Theory

By Dehmer, Matthias / Emmert-Streib, Frank

Condition: New. Publisher/Verlag: Wiley-VCH | Theoretical Foundations and Applications | This comprehensive introduction to computational network theory as a branch of network theory builds on the understanding that such networks are a tool to derive or verify hypotheses by applying computational techniques to large scale network data.The highly experienced team of editors and high-profile authors from around the world present and explain a number of methods that are representative of computational network theory, derived from graph theory, as well as computational and statistical techniques.With its coherent structure and homogenous style, this reference is equally suitable for courses on computational networks. | Color Plates XVPreface XXXIList of Contributors XXXIII1 Model Selection for Neural Network Models: A Statistical Perspective 1Michele La Rocca and Cira Perna1.1 Introduction 11.2 Feedforward Neural NetworkModels 21.3 Model Selection 41.3.1 Feature Selection by Relevance Measures 61.3.2 Some Numerical Examples 101.3.3 Application to Real Data 121.4 The Selection of the Hidden Layer Size 141.4.1 A Reality Check Approach 151.4.2 Numerical Examples by Using the Reality Check 161.4.3 Testing Superior Predictive Ability for Neural Network Modeling 191.4.4 Some Numerical Results Using Test of Superior Predictive Ability 211.4.5 An Application to Real Data 231.5 Concluding Remarks 26References 262 Measuring Structural Correlations...

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