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Titolo	Computational methods for deep learning : theory, algorithms, and implementations / / Wei Qi Yan
Pubbl/distr/stampa	Singapore : , : Springer, , [2023] ©2023
ISBN	981-9948-23-1
Edizione	[Second edition.]
Descrizione fisica	1 online resource (235 pages)
Collana	Texts in computer science
Disciplina	005.7
Soggetti	Big data Computer science Data mining
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Intro -- Preface -- Acknowledgements -- Contents -- About the Author -- Acronyms -- Symbols -- 1 Introduction -- 1.1 Deep Learning as a Prominent Component of AI -- 1.2 Theory and Foundations of Deep Learning -- 1.3 The Chronicle of Deep Learning -- 1.4 Sample Projects for Deep Learning -- 1.5 The Databases for Deep Learning Projects -- 1.6 Awarded Papers on Deep Learning -- 1.7 Deep Learning Papers Published with Nature and Science -- 1.8 Organization of This Book -- 2 Deep Learning Platforms -- 2.1 Introduction -- 2.2 MATLAB for Deep Learning -- 2.3 TensorFlow for Deep Learning -- 2.4 Data Augmentation and Labeling -- 2.5 R for Deep Learning -- 2.6 Fundamental Mathematics -- Exercises -- 3 Convolutional Neural Networks and Recurrent Neural Networks -- 3.1 Multilayer Perceptron -- 3.2 Convolutional Neural Network and YOLO Models -- 3.2.1 Region-Based Convolutional Neural Network -- 3.2.2 Mask R-CNN -- 3.2.3 YOLO Models -- 3.2.4 Single Shot Multibox Detector -- 3.2.5 DenseNets and ResNets -- 3.2.6 Capsule Network -- 3.3 Recurrent Neural Networks and Time Series Analysis -- 3.3.1 Hidden Markov Model -- 3.3.2 Recurrent Neural Networks -- 3.3.3 Transformer Models -- 3.3.4 Generative Pre-trained Transformer Models -- 3.3.5 Time Series Analysis -- 3.4 Functional Analysis -- 3.4.1 Metric Space -- 3.4.2 Vector Space -- 3.4.3 Normed Space --

3.4.4 Hilbert Space -- Exercises -- 4 Generative Adversarial Networks and Siamese Nets -- 4.1 Generative Adversarial Networks -- 4.2 Siamese Neural Networks -- 4.3 Autoencoder -- 4.4 Regularizations -- 4.5 Information Theory -- Exercises -- 5 Reinforcement Learning -- 5.1 Introduction -- 5.2 Bellman Equation -- 5.3 Deep Q-Learning -- 5.4 Control Theory -- 5.4.1 Mathematical Control Theory -- 5.4.2 Stochastic Control Theory -- 5.4.3 Fuzzy Control Theory -- 5.5 Optimization -- 5.6 Data Fitting -- 5.7 Polynomials.
6 Manifold Learning and Graph Neural Network -- 6.1 Manifold Learning -- 6.2 Probabilistic Graphical Models -- 6.3 Boltzmann Machine -- 6.4 Graph Neural Networks -- 6.4.1 Machine Learning on Graphs -- 6.4.2 Node Embeddings -- 6.4.3 Deep Graph Neural Networks -- 6.4.4 Graph Generating -- Exercises -- 7 Transfer Learning and Ensemble Learning -- 7.1 Transfer Learning -- 7.1.1 Concepts of Transfer Learning -- 7.1.2 Taskonomy -- 7.2 Ensemble Learning -- 7.3 Knowledge Distillation -- Glossary -- Names in This Book -- Index.

2. Record Nr.	UNINA9910975017403321
Autore	Duggan Christopher (Christopher P.)
Titolo	Nutrition in pediatrics : basic science, clinical applications // Christopher Duggan, John B. Watkins, W. Allan Walker
Pubbl/distr/stampa	Hamilton, Ont. ; ; Lewiston, N.Y., : B.C. Decker, 2008
ISBN	1-282-27427-9 9786612274275 1-60795-073-1
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Descrizione fisica	1 online resource (923 p.)
Altri autori (Persone)	WatkinsJohn B. <1938-> WalkerW. Allan
Disciplina	615.854083
Soggetti	Children - Nutrition Diet therapy for children
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously published as: Nutrition in pediatrics : basic science and clinical applications, 2003.
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Nota di contenuto	Front Matter ; Table of Contents; 1: General Concepts ; 2: Clinical

Assessment of Nutritional Status ; 3: Laboratory Assessment of Nutritional Status ; 4: Body Composition and Growth ; 5: Macronutrient Requirements for Growth: Carbohydrates ; 6: Macronutrient Requirement for Growth: Protein/Amino Acid ; 7: Macronutrient Requirements for Growth: Fats & Fatty Acids ; 8: Trace Elements ; 9: Iron ; 10: Vitamins ; 11: Dietary Reference Intakes ; 12: International Nutrition ; 13: Protein-Energy Malnutrition: Pathophysiology, Clinical Consequences, and Treatment
 14: Childhood Malnutrition: Prevention & Control at the National Level
 15: Community Nutrition and Its Impact on Children: Industrialized Countries ; 16: Nutritional Epidemiology ; 17: Food Safety ; 18: Drug Therapy and Role of Nutrition ; 19: Nutrition and Gene Expression ; 20: Nutrition and the Humoral Regulation of Growth ; 21: Gastrointestinal Development: Implications for Infant Feeding ; 22: Immunophysiology and Nutrition of the Gut ; 23: Malnutrition and Host Defense ; 24: Neuropsychological Development ; 25: Nutrition and the Behavior of Children
 26: Maternal Nutrition and Pregnancy Outcome 27: Human Growth and Disease in Later Life ; 28: Development of the Fetus: Carbohydrate & Lipid Metabolism ; 29: Amino Acid Nutrition in Utero: Placental Function & Metabolism ; 30: Human Milk: Nutritional Properties ; 31: Protective Properties of Human Milk ; 32: Approach to Breast-feeding ; 33: The Low-Birth-Weight Infant: Inpatient Care ; 34: Nutritional Management of Preterm Infants Postdischarge ; 35: The Term Infant ; 36: Complementary Feeding ; 37: Energy Metabolism and Requirements in Health & Disease
 38: Energy and Substrate Regulation in Obesity 39: Evaluation and Management of Obesity ; 40: Complications of Obesity: Metabolic Syndrome ; 41: Popular Diets for Obesity ; 42: Feeding Difficulties ; 43: Failure to Thrive: Malnutrition in the Pediatric Outpatient Setting ; 44: Nutritional Assessment of the Hospitalized Patient ; 45: Developmental Disabilities ; 46.1: Inborn Errors of Fasting Adaptation: Glycogen Storage Disease ; 46.2: Inborn Errors of Metabolism and the Liver ; 47: Persistent Renal Disease ; 48: Inflammatory Bowel Disease ; 49: Pediatric HIV Infection ; 50: Celiac Disease
 51: Food Allergies 52: Exocrine Pancreatic Disease Including Cystic Fibrosis ; 53: Acute and Chronic Liver Disease ; 54: Cancer Prevention ; 55: Cancer Treatment ; 56: Diabetes Mellitus ; 57: Diarrheal Diseases ; 58: Intestinal Failure, Short Bowel Syndrome, and Intestinal Transplantation ; 59: The Critically Ill Child ; 60: Hyperlipidemia and Cardiovascular Disease Risk ; 61: Carbohydrate Absorption and Malabsorption ; 62: Nutritional Anemias ; 63: Function and Nature of the Components in the Oral Cavity ; 64: Adolescence: Health and Disordered Eating
 65: The Adolescent Athlete: Performance-Enhancing Drugs & Dietary Supplements

Sommario/riassunto

The field of pediatric nutrition has developed into an area essential to components of academic pediatric program throughout the world. Among the pediatric texts available, none deals with the physiologic or pathophysiologic basis of nutrition in pediatri
