1. Record Nr.   UNISA990001736030203316

Autore	LEWIS, Sinclair
Titolo	Main street & Babbitt / Sinclair Lewis
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Collocazione	VII.4. Coll.1/ 67(II na 813 LEW)
Lingua di pubblicazione	Inglese
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Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (319 pages)
Collana	Studies in Computational Intelligence, , 1860-9503 ; ; 981
Disciplina	610.28563
Soggetti	Computational intelligence Engineering mathematics Biomedical engineering Computational Intelligence Engineering Mathematics Biomedical Engineering and Bioengineering
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Livello bibliografico	Monografia

Nota di contenuto	Part I: Biomedical Applications of Computational Intelligence Techniques -- Bilattice CADIAG-II: Theory and Experimental Results -- A Combination Model of Robust Principal Component Analysis and Multiple Kernel Learning for Cancer Patient Stratification -- Attention U-Net with Active Contour based Hybrid Loss for Brain Tumor Segmentation -- Refining Skip Connections by Fusing Multi-scaled Context in Neural Network for Cardiac MR Image Segmentation -- End-to-end Hand Rehabilitation System with Single-shot Gesture Classification for Stroke Patients -- Feature Selection based on Shapley Additive Explanations on Metagenomic Data for Colorectal Cancer Diagnosis -- Clinical Decision Support Systems for Pneumonia Diagnosis using Gradient-weighted Class Activation Mapping and Convolutional Neural Networks -- Improving 3D Hand Pose Estimation with Synthetic RGB Image Enhancement using RetinexNet and Dehazing -- Imbalance in Learning Chest X-ray Images for COVID-19 Detection -- Deep Learning based COVID-19 Diagnosis by Joint Classication and Segmentation -- Part II: General Computational Intelligence Techniques and Their Applications -- Why It Is Sufficient to Have Real-Valued Amplitudes in Quantum Computing.
Sommario/riassunto	This book lists current and potential biomedical uses of computational intelligence methods. These methods are used in diagnostics and treatment of such diseases as cancer, cardiac diseases, pneumonia, stroke, and COVID-19. Many biomedical problems are difficult; so, often, the current methods are not sufficient, new methods need to be developed. To confidently apply the new methods to critical life-and-death medical situations, it is important to first test these methods on less critical applications. The book describes several such promising new methods that have been tested on problems from agriculture, computer networks, economics and business, pavement engineering, politics, quantum computing, robotics, etc. This book helps practitioners and researchers to learn more about computational intelligence methods and their biomedical applications—and to further develop this important research direction.