

1. Record Nr.	UNINA9910746954703321
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Titolo	Advances in Computational Intelligence : 17th International Work-Conference on Artificial Neural Networks, IWANN 2023, Ponta Delgada, Portugal, June 19–21, 2023, Proceedings, Part I / / edited by Ignacio Rojas, Gonzalo Joya, Andreu Catala
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	9783031430855 3031430859
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (723 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14134
Altri autori (Persone)	JoyaGonzalo CatalaAndreu
Disciplina	006.3
Soggetti	Artificial intelligence Bioinformatics Computers Computer networks Computer systems Artificial Intelligence Computational and Systems Biology Computing Milieux Computer Networks Computer Communication Networks Computer System Implementation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Advanced Topics in Computational Intelligence -- Advances in Artificial Neural Networks -- ANN HW-Accelerators -- Applications of Machine Learning in Biomedicine and Healthcare -- Applications of Machine Learning in Time Series Analysis.
Sommario/riassunto	This two-volume set LNCS 14134 and LNCS 14135 constitutes the refereed proceedings of the 17th International Work-Conference on Artificial Neural Networks, IWANN 2023, held in Ponta Delgada, Portugal, during June 19–21, 2023. The 108 full papers presented in

this two-volume set were carefully reviewed and selected from 149 submissions. The papers in Part I are organized in topical sections on advanced topics in computational intelligence; advances in artificial neural networks; ANN HW-accelerators; applications of machine learning in biomedicine and healthcare; and applications of machine learning in time series analysis. The papers in Part II are organized in topical sections on deep learning and applications; deep learning applied to computer vision and robotics; general applications of artificial intelligence; interaction with neural systems in both health and disease; machine learning for 4.0 industry solutions; neural networks in chemistry and material characterization; ordinal classification; real world applications of BCI systems; and spiking neural networks: applications and algorithms. .

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