1. Record Nr.   UNINA9910522986703321

   Titolo   International Youth Conference on Electronics, Telecommunications and Information Technologies : Proceedings of the YETI 2021, St. Petersburg, Russia / / edited by Elena Velichko, Viktoria Kapralova, Platon Karaseov, Sergey Zavjalov, Pablo Angueira, Sergey Andreev

   Pubbl/distr/stampa   Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022

   ISBN   3-030-81119-0

   Edizione   [1st ed. 2022.]

   Descrizione fisica   1 online resource (xxvii, 599 pages) : illustrations (some color)

   Collana   Springer Proceedings in Physics, , 1867-4941 ; ; 268

   Disciplina   621.381
                        621.38

   Soggetti   Optics
                        Nanotechnology
                        Solid state physics
                        Signal processing
                        Telecommunication
                        Optics and Photonics
                        Electronic Devices
                        Digital and Analog Signal Processing
                        Communications Engineering, Networks

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di contenuto   Synthesis and Analysis of Avionics Functions Digital Twins Using Machine Learning Classication Algorithms -- On the Application of a Fully Connected Neural Network for Multifrequency Signals Demodulation -- Automated Power Amplier Design through Multiobjective Bottom-Up and Particle Swarm Optimizations using Neural Network -- Investigation of Super-Resolution Methods for Processing a Sequence of Aerial Photographs -- On the Classication of OFDM Signals Modulation Types Using Neural Networks -- Use of the Method of Setting the Interval Target in the Problem of Synthesis of a Neural Network Classier for Diagnosing Chronic Kidney Disease in Patients.

Sommario/riassunto

This book presents peer-reviewed and selected papers of the International Youth Conference on Electronics, Telecommunications, and Information Technologies (YETI-2021), held in Peter the Great St. Petersburg Polytechnic University, St. Petersburg, on April 22–23, 2021. For the third time around, the conference brings together students and early career scientists, serving to disseminate the current trends and advances in electronics, telecommunications, optical, and information technologies. A series of workshops and poster sessions focusing, in particular, on the theoretical and practical challenges in nanotechnologies, photonics, signal processing, and telecommunications allow to establish contacts between potential partners, share new ideas, and start new collaborations. The conference is held in an online format, thus considerably expanding its geographical reach and offering an even wider scope of discussion.