

1. Record Nr.	UNINA9910337876803321
Titolo	Applied Physics, System Science and Computers III : Proceedings of the 3rd International Conference on Applied Physics, System Science and Computers (APSAC2018), September 26-28, 2018, Dubrovnik, Croatia / / edited by Klimis Ntalianis, George Vachtsevanos, Pierre Borne, Anca Croitoru
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XI, 356 p. 142 illus., 99 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 574
Disciplina	571.4 530
Soggetti	Biophysics Biological physics Electrical engineering Mathematical models Manufactures Biological and Medical Physics, Biophysics Electrical Engineering Mathematical Modeling and Industrial Mathematics Manufacturing, Machines, Tools, Processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Doppler Delay in Navigation Signals Received by GNSS Receivers -- Experimental Setup for H2/O2 Small Thruster Evaluation -- Tracking the Evolution of Functional Connectivity Patterns between Pancreatic Beta Cells with Multilayer Network Formalism -- Silver Thin Film and Water Dielectric SPR Sensor Experimental and Simulation Characteristics -- On the Solution of the Fredholm Equation with the use of Quadratic Integro-Differential Splines.
Sommario/riassunto	This book reports on advanced theories and methods in three related fields of research: applied physics, system science and computers. The first part covers applied physics topics, such as lasers and accelerators;

fluid dynamics, optics and spectroscopy, among others. It also addresses astrophysics, security, and medical and biological physics. The second part focuses on advances in computers, such as those in the area of social networks, games, internet of things, deep learning models and more. The third part is especially related to systems science, covering swarm intelligence, smart cities, complexity and more. Advances in and application of computer communication, artificial intelligence, data analysis, simulation and modeling are also addressed. The book offers a collection of contributions presented at the 3rd International Conference on Applied Physics, System Science and Computers (APSAC), held in Dubrovnik, Croatia on September 26–28, 2018. Besides presenting new methods, it is also intended to promote collaborations between different communities working on related topics at the interface between physics, computer science and engineering.

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