1. Record Nr. UNINA9910784048003321

Autore	Ivancevic Vladimir G
Titolo	Natural biodynamics [[electronic resource] /] / Vladimir G. Ivancevic, Tijana T. Ivancevic
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2005
ISBN	1-281-89915-1 9786611899158 981-270-316-0
Descrizione fisica	1 online resource (1036 p.)
Altri autori (Persone)	IvancevicTijana T
Disciplina	612
Soggetti	Human physiology Human biology Human physiology - Mathematical models Human biology - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 947-977) and index.
Nota di contenuto	Preface; Glossary of Frequently Used Symbols; Contents; 1. Introduction; 2. Natural Language of Biodynamics; 3. Natural Geometry of Biodynamics; 4. Natural Mechanics of Biodynamics; 5. Natural Topology of Biodynamics; 6. Natural Control and Self-organization in Biodynamics; 7. Natural Brain Dynamics and Sensory-Motor Integration; Appendix A; Bibliography; Index
Sommario/riassunto	This comprehensive volume is a graduate-level text in human biodynamics, written in the unified categorical language of modern differential geometry and topology. Combining mathematics, physics and robotics with human physiology, this is the first book that describes all levels of human biodynamics, from musculo-skeletal mechanics to the higher brain functions. The book develops and uses a variety of research methods, ranging from chaos theory and Haken's synergetics, through quantum mechanics, to nonlinear control and artificial intelligence, to provide the means to understand, predict and co

2. Record Nr. UNINA9910483455003321

Titolo	Teaching Fundamental Concepts of Informatics : 4th International Conference on Informatics in Secondary Schools - Evolution and Perspectives, ISSEP 2010, Zurich, Switzerland, January 13-15, 2010, Proceedings / / edited by Juraj Hromkovi, Rastislav Královic, Jan Vahrenhold
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
ISBN	1-280-38544-8 9786613563361 3-642-11376-1
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (X, 207 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5941
Classificazione	SS 4800
Altri autori (Persone)	HromkoviJuraj VahrenholdJan KrlovicRichard
Disciplina	004
Soggetti	Education - Data processing Science - Study and teaching Computers Professions Computers and civilization Mathematics - Study and teaching Learning, Psychology of Computers and Education Science Education The Computing Profession Computers and Society Mathematics Education Instructional Psychology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Sustaining Informatics Education by Contests -- Impasse, Conflict, and Learning of CS Notions -- K-12 Computer Science: Aspirations,

Realities, and Challenges -- Perspective on Computer Science Education -- Didactics of Introduction to Computer Science in High School -- Software Design Course for Leading CS In-Service Teachers -- The Effect of Tangible Artifacts, Gender and Subjective Technical Competence on Teaching Programming to Seventh Graders -- The Difficulty of Programming Contests Increases -- Didactic Games for Teaching Information Theory -- Collaborative Initiatives for Promoting Computer Science in Secondary Schools -- Teaching Public-Key Cryptography in School -- Towards a Methodical Approach for an Empirically Proofed Competency Model -- Having Fun with Computer Programming and Games: Teacher and Student Experiences -- Showing Core-Concepts of Informatics to Kids and Their Teachers -- Object-Oriented Modeling of Object-Oriented Concepts -- Programming Camps: Letting Children Discover the Computer Science -- Mission to Mars – A Study on Naming and Referring -- Long-Term Development of Software Projects – Students' Self-appreciation and Expectations.

Sommario/riassunto

The International Conference on Informatics in Secondary Schools: Evolution and Perspective (ISSEP) is an emerging forum for researchers and practitioners in the area of computer science education with a focus on secondary schools. The ISSEP series started in 2005 in Klagenfurt, and continued in 2006 in Vilnius, and in 2008 in Torun. ´ The 4th ISSEP took part in Zurich. This volume presents 4 of the 5 invited talks and 14 regular contributions chosen from 32 submissions to ISSEP 2010. The ISSEP conference series is devoted to all aspects of computer science teaching. In the preface of the proceedings of ISSEP 2006, Roland Mittermeir wrote: "ISSEP aims at educating 'informatics proper' by showing the beauty of the discipline, hoping to create interest in a later professional career in c- puting, and it will give answers di?erent from the opinion of those who used to familiarize pupils with the basics of ICT in order to achieve computer lit- acy for the young generation. " This is an important message at this time, when several countries have reduced teaching informatics to educating about current softwarepackagesthatchangefromyeartoyear. ThegoalofISSEPistosupport teaching of the basic concepts and methods of informatics, thereby making it a subject in secondary schools that is comparable in depth and requirements with mathematics or natural sciences. As we tried to present in our book "Algori- mic Adventures.