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Jan Vahrenhold (Eds.)**

# **Informatics in Schools**

**Curricula, Competences, and Competitions**

**8th International Conference on Informatics in Schools:  
Situation, Evolution, and Perspectives, ISSEP 2015  
Ljubljana, Slovenia, September 28 – October 1, 2015, Proceedings**

 **Springer**

# Informatics Schools Curricula Competences Competitions

**Umut Durak, Jürgen Becker, Sven  
Hartmann, Nikolaos S. Voros**



## **Informatics Schools Curricula Competences Competitions:**

**Informatics in Schools. Curricula, Competences, and Competitions** Andrej Brodnik, Jan Vahrenhold, 2015-09-23

This book constitutes the refereed proceedings of the 8th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2015 held in Ljubljana Slovenia in September October 2015 The 14 full papers presented together with 3 invited talks were carefully reviewed and selected from 36 submissions The focus of the conference was on following topics sustainable education in informatics for pupils of all ages connecting informatics lessons to the students everyday lives teacher education in informatics and research on informatics in schools empirical qualitative quantitative theory building research methods comparative studies transferability of methods and results from other disciplines

Teaching Fundamental Concepts of Informatics Juraj Hromkovič, Rastislav Královic, Jan Vahrenhold, 2010-01-08 This book constitutes the refereed proceedings of the fourth International Conference on Informatics in Secondary Schools Evolution and Perspectives ISSEP 2010 held in Zurich Switzerland in January 2010 The 14 revised full papers presented together with 6 invited papers were carefully reviewed and selected from 32 submissions A broad variety of topics related to teaching informatics in secondary schools is addressed ranging from national experience reports to paedagogical and methodological issues Contributions solicited cover a variety of topics including but not limited to accessibility assessment classroom management communication skills computer science contests computers and society courseware curriculum issues research in informatics education diagnostic teaching empirical methods ethical societal issues gender and diversity issues high school college transition issues information systems information technology interdisciplinary courses and projects laboratory active learning multimedia object oriented issues pedagogy student retention and persistence role of programming and algorithmics using emerging instructional technologies and web based techniques web services

Informatics in Schools: Improvement of Informatics Knowledge and Perception Andrej Brodnik, Françoise Tort, 2016-09-21 This book constitutes the refereed proceedings of the 9th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2016 held in Münster Germany in October 2015 The 17 full papers presented together with 1 invited talk were carefully reviewed and selected from 50 submissions The focus of the conference was on following topics sustainable education in informatics for pupils of all ages connecting informatics lessons to the students everyday lives teacher education in informatics or computer science and research on informatics or computer science in schools empirical qualitative quantitative theory building research methods comparative studies transferability of methods and results from other disciplines

**Informatics in Schools. Fostering Problem-Solving, Creativity, and Critical Thinking Through Computer Science Education**

Jacqueline Staub, Adish Singla, 2025-08-19 This book constitutes the proceedings of the 18th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2025 held in Trier Germany during September 8 10 2025 The 13 full papers presented were carefully reviewed and selected from 41 submissions The papers cover the following topics

Curricula and Computer Science Concepts Teachers Perspective AI and Digital Literacy Programming Problem Solving and Computational Thinking      **Informatics in Schools: Contributing to 21st Century Education** Ivan Kalas,Roland T. Mittermeir,2011-10-12 This book constitutes the refereed proceedings of the 5th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2011 held in Bratislava Slovakia in October 2011 The 20 revised full papers presented were carefully reviewed and selected from 69 submissions A broad variety of topics related to teaching informatics in schools is addressed ranging from national experience reports to paedagogical and methodological issues The papers are organized in topical sections on informatics education the spectrum of options national perspectives outreach programmes teacher education informatics in primary schools advanced concepts of informatics in schools as well as competitions and exams      **Informatics in Schools. Sustainable Informatics Education for Pupils of all Ages** Ira Diethelm,Roland T. Mittermeir,2013-02-26 This book constitutes the refereed proceedings of the 6th International

Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2013 held in Oldenburg Germany in February March 2013 The 15 full papers included in this volume were carefully reviewed and selected from 48 submissions in addition the book contains two keynote talks in full paper length The contributions are organized in topical sections named from computer usage to computational thinking algorithmic and computational thinking games informatics in the context of other disciplines and competence based learning and retention of competencies      **Informatics in Schools. Fundamentals of Computer Science and Software Engineering** Sergei N. Pozdniakov,Valentina Dagienė,2018-10-10

This book constitutes the proceedings of the 11th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2018 held in St Petersburg Russia in October 2018 The 29 full papers presented in this volume were carefully reviewed and selected from 74 submissions They were organized in topical sections named role of programming and algorithmics in informatics for pupils of all ages national concepts of teaching informatics teacher education in informatics contests and competitions in informatics socio psychological aspects of teaching informatics and computer tools in teaching and studying informatics      Informatics in Schools Teaching and Learning Perspectives Yasemin Gülbahar,Eriņ Karataş,2014-09-15 This book constitutes the refereed proceedings of the 7th International Conference on Informatics in

Schools Situation Evolution and Perspectives ISSEP 2014 held in Istanbul Turkey in September 2014 The 13 full papers presented together with 2 keynotes were carefully reviewed and selected from 33 submissions The focus of the conference was on following topics Competence Science Education Competence Measurement for Informatics Emerging Technologies and Tools for Informatics Teacher Education in Informatics and Curriculum Issues      **Informatics in Schools. Engaging**

**Learners in Computational Thinking** Külli Kori,Mart Laanpere,2020-11-05 This book constitutes the proceedings of the 13th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2020 held in Tallinn Estonia in November 2020 Due to COVID 19 related travelling restrictions the conference had to be switched to online

format The 18 revised full papers presented were carefully reviewed and selected from 53 submissions They are organized in topical sections named Tasks for Informatics Competitions Engagement and Gender Issues in School Informatics Informatics Teacher Education Curriculum and Pedagogical Issues *Informatics Education - The Bridge between Using and Understanding Computers* Roland Mittermeir,2006-10-28 This book constitutes the refereed proceedings of the International Conference on Informatics in Secondary Schools Evolution and Perspectives ISSEP 2006 held in Vilnius Lithuania in November 2006 The 29 revised full papers presented were carefully reviewed and selected from 204 submissions A broad variety of topics related to teaching informatics in secondary schools is addressed *Health Professionals' Education in the Age of Clinical Information Systems, Mobile Computing and Social Networks* Aviv Shachak,Elizabeth Borycki,Shmuel P. Reis,2017-07-26 Health Professionals Education in the Age of Clinical Information Systems Mobile Computing and Social Networks addresses the challenges posed by information and communication technology to health professionals education and the lessons learned from field experiences and research This book is divided in three parts the changing landscape of information and communication technology in health care in which it discusses how information and communication technology is transforming health care and the implications of these changes for health professions education experiences from the field with real life examples of health professionals education in and for the digital era and evaluation of students and programs addressing the use of technology to assess learners as well as the complexity of evaluating programs to enhance competence in an information technology rich health care world Written by leading researchers from different parts of the world the book is a valuable source for educators and professionals who are active or wish to be part of the health informatics field Brings an in depth understanding and background on the challenges for education of the health professions brought by information and communication technology Provides real life examples on how technology is used in healthcare and how it can be used in education Presents valuable information in a visually appealing format with tables and figures

*Informatics in Schools. New Ideas in School Informatics* Sergei N. Pozdniakov,Valentina Dagienė,2019-11-11 This book constitutes the proceedings of the 12th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2019 held in Larnaca Cyprus in November 2019 The 23 revised full papers presented were carefully reviewed and selected from 55 submissions They are organized in topical sections named teacher education in informatics primary education in informatics contemporary computer science ideas in school informatics teaching informatics from highschool to university levels contests competitions and games in informatics **Competition and Cooperation in Economics and Business** Lindawati Gani,Beta Gitaharie,Zaäfri Husodo,Ari Kuncoro,2017-10-12 Asia and the Pacific have become the growth engine of the world economy with the contribution of two third of the global growth The book discusses current issues in economics business and accounting in which economic agents as individuals entrepreneurs and professionals as well as countries in the Asia and Pacific regions compete and collaborate with each other and with the rest

of the globe Areas covered in the book include economic development and sustainability labor market competition Islamic economic and business marketing finance accounting standard compliances and taxation It will help shed light on what business and economic scholars in regions have done in terms of research and knowledge development as well as the new frontiers of research that have been explored and opening up This is an Open Access ebook and can be found on [www.taylorfrancis.com](http://www.taylorfrancis.com)

### **Handbook of Research on Using Educational Robotics to Facilitate Student Learning**

Papadakis, Stamatios, Kalogiannakis, Michail, 2020-12-05 Over the last few years increasing attention has been focused on the development of children's acquisition of 21st century skills and digital competences Consequently many education scholars have argued that teaching technology to young children is vital in keeping up with 21st century employment patterns Technologies such as those that involve robotics or coding apps come at a time when the demand for computing jobs around the globe is at an all time high while its supply is at an all time low There is no doubt that coding with robotics is a wonderful tool for learners of all ages as it provides a catalyst to introduce them to computational thinking algorithmic thinking and project management Additionally recent studies argue that the use of a developmentally appropriate robotics curriculum can help to change negative stereotypes and ideas children may initially have about technology and engineering The Handbook of Research on Using Educational Robotics to Facilitate Student Learning is an edited book that advocates for a new approach to computational thinking and computing education with the use of educational robotics and coding apps The book argues that while learning about computing young people should also have opportunities to create with computing which have a direct impact on their lives and their communities It develops two key dimensions for understanding and developing educational experiences that support students in engaging in computational action 1 computational identity which shows the importance of young people's development of scientific identity for future STEM growth and 2 digital empowerment to instill the belief that they can put their computational identity into action in authentic and meaningful ways Covering subthemes including student competency and assessment programming education and teacher and mentor development this book is ideal for teachers instructional designers educational technology developers school administrators academicians researchers and students

### **Enabling Health Informatics Applications** J. Mantas, A. Hasman, M.S. Househ, 2015-07-24

Informatics and technology have long been indispensable to the provision of healthcare and their importance continues to grow in this field This book presents the 65 full papers presented at the 13th annual International Conference on Informatics Management and Technology in Healthcare ICIMTH 2015 held in Athens Greece in July 2015 The conference attracts scientists and practitioners from all continents and treats the field of biomedical informatics in a very broad framework examining the research and applications outcomes of informatics from cell to population and covering a number of technologies such as imaging sensors and biomedical equipment as well as management and organizational subjects such as legal and social issues The conference also aims to set research priorities in health informatics This overview of current

research and development will be of interest to all those whose work involves the use of biomedical informatics in the planning provision and management of healthcare

**Key Competencies in ICT and Informatics: Implications and Issues for Educational Professionals and Management** Don Passey, Arthur Tatnall, 2014-12-15 This book features a selection of thoroughly refereed papers presented at two subconferences of the IFIP TC 3 Conference on Key Competencies in Informatics and Information and Communication Technologies the IFIP WG 3.4 Conference on Key Competencies for Educating ICT Professionals KCICTP 2014 and the IFIP WG 3.7 Conference on Information Technology in Educational Management ITEM 2014 held in Potsdam Germany in July 2014 The 28 revised full papers were carefully reviewed and selected from numerous submissions They are organized in the following topical sections key competencies for educating ICT professionals key competencies learning and life transitions key competencies and school management and education stakeholders and key competencies

*Informatics in Schools* Ira Diethelm, 2013 The International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP is a forum for researchers and practitioners in the area of Informatics education both in primary and secondary schools It provides an opportunity for educators to reflect upon the goals and objectives of this subject its curricula and various teaching learning paradigms and topics possible connections to everyday life and various ways of establishing Informatics Education in schools This conference also cares about teaching learning materials various forms of assessment traditional and innovative educational research designs Informatics contribution to the preparation of children for the 21st century motivating competitions projects and activities supporting informatics education in school

**Advances in Aeronautical Informatics** Umut Durak, Jürgen Becker, Sven Hartmann, Nikolaos S. Voros, 2018-05-10 The history of flight started with the pioneer era The introduction of mechanical controls including hydraulics then led to the second era Later with the utilization of computers and automation in aircraft we reached the third era Now we are moving towards the fourth era of flight namely Flight 4.0 which is characterized by smart and connected aircraft that extensively exploit emerging information and communication technologies Aeronautical informatics is advancing rapidly through the synergy between information and communication technologies and aeronautics Multi core avionic platforms wireless avionics networking service oriented architectures and IoT data sciences and semantic infrastructures are shaping systems to come Increasing autonomy requirements are challenging the community to investigate new ways to assure safety Modern software engineering methodologies and real time software techniques are altering the established development practice Universities are starting to align their aerospace engineering and computer science curriculums in order to address this synergy This book is a unique compilation of advancements in aeronautical informatics introducing the changing technology landscape of flight with respect to a new push in information and communication technology

*International Education and the Next-Generation Workforce: Competition in the Global Economy* Wang, Viktor, 2013-08-31 Education is the first stage in developing a viable dynamic and long lived global economy

Unfortunately in times of economic hardship educational programs teacher salaries and extracurricular opportunities are often the first to be cut International Education and the Next Generation Workforce Competition in the Global Economy presents a detailed discussion of present educational principles and policies and their impact on the effectiveness of education in a multi national context The chapters in this pivotal reference contribute to the body of literature bridging the gap between the fields of business and education providing educators and business professionals at all levels with an instruction manual for the next generation of employment focused teaching and learning Teaching Coding in K-12 Schools Therese Keane,Andrew E. Fluck,2023-02-27 This book contains highly effective ways to teach coding and computational thinking skills throughout primary and secondary schooling It outlines a research informed path for students from birth to 18 years identifying key skills and learning activities Based on global perspectives and research at each stage it outlines how these findings can be applied in the classroom Teaching coding to students in K 12 has been a skillset that has been debated across educational jurisdictions globally for some time The book provides examples of schools that are teaching coding to students in engaging and relevant ways delivering well thought out compulsory curriculums Additionally it provides examples of schools where coding is not mandated in the curriculum and is taught in an ad hoc manner Through the full discussion of all of these varied examples the book presents both sides of the serious and ongoing debate in the field as to whether coding should be taught in an explicit way at all The increasing school of thought that teaching coding is a skill that is already obsolete and the focus should be on computational thinking is completely examined and presented In this book both sides of the argument as well as the specific meticulous research underlying each side are given equal weight The debate is a serious one and requires a clearly defined thematic response with evidence on all sides of the argument presented rationally This book does just that Created by carefully selected authors from around the world it will be a highly studied research reference



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