Contents

Editorial

INFORMATION & COMMUNICATION TECHNOLOGY PENETRATION INTO EDUCATION: SOME THOUGHTS
Vincentas Lamanauskas ............................................................................................................. 5

Articles

DEVELOPMENT OF A UNIVERSAL MODEL OF E-COURSE USING PETRI NETS
Zoltán Balogh, Martin Magdin, Milan Turčáni ........................................................................... 7

THE ROLE OF BIOGRAPHIES IN CHEMISTRY EDUCATION AND ITS CONTRIBUTION TO UNDERSTANDING HOW SCIENTISTS AND SCIENCE WORKS
Diana M. Farías, Agnaldo Arroio ............................................................................................... 14

THE INFLUENCE OF OWNERSHIP AND USING OF PC ON THE ATTITUDES TOWARD GEOGRAPHY
Milan Kubiatko, Katerina Mrazkova .......................................................................................... 23

ENHANCING INTERACTIVITY IN GEOGRAPHY CLASS: FOSTERING CRITICAL THINKING SKILLS THROUGH TECHNOLOGY
Kuo Hung Huang, Kai-Chi Hung, Ching-Ching Cheng .................................................................. 32

DIGITAL TEACHING AND LEARNING CONTENT IN NATURAL SCIENCE EDUCATION: A CASE STUDY
Vincentas Lamanauskas, Violeta Šlekenė, Renata Bilbokaitė, Loreta Ragulienė ....................... 46

OPEN PROBLEMS IN MATHEMATICAL MODELLING AND PHYSICAL EXPERIMENTS. EXPLORING EXPONENTIAL FUNCTION
Raffaele Pisano, Paolo Bussotti ................................................................................................. 56

USING FORMATIVE MEASUREMENT MODELS TO EVALUATE THE EDUCATIONAL AND MOTIVATIONAL VALUE OF AN AR-BASED APPLICATION
Costin Pribeanu .......................................................................................................................... 70

WHAT IS THE TENDENCY IN BIOLOGY VIRTUAL FIELD TRIPS? THE CASE OF MARIBOR ISLAND TRAIL
Miro Puhek, Matej Perše, Andrej Šorgo ..................................................................................... 80

THE USE OF AUDIOVISUAL APPROACH TO TEACH NATURE OF SCIENCE FOR IN-SERVICE NATURAL SCIENCE TEACHER’S EDUCATION
Edson Rodrigues Santana, Agnaldo Arroio .................................................................................. 90

HOW ICT CAN ENHANCE THE ATTRACTIVENESS OF MATHEMATICS AND PHYSICS IN PRIMARY SCHOOL
Juraj Slabeycius, Daniel Polčín .................................................................................................. 101
SCIENCE LEARNING SYSTEMS NEWLY RECEIVED BY LITHUANIAN SCHOOLS AND THEIR POTENTIAL APPLICATIONS IN TEACHING PHYSICS
Violeta Šlekišienė, Loreta Ragulienė ................................................................. 108

Information
INSTRUCTIONS FOR AUTHORS .............................................................................. 117
JOURNAL OF BALTIC SCIENCE EDUCATION ...................................................... 119