SATURS
CONTENTS

Aigars Andersons, Sarmīte Rozentāle

DYNAMIC SIMULATION MODEL FOR SUSTAINABLE MUNICIPALITY DEVELOPMENT IN VIDZEME REGION, LATVIA 11

Viktorija Boltunova, Natalya Prokofyeva

ANALYSIS AND SELECTION OF WEB SERVICE TECHNOLOGIES 18

Henrihs Gorskis, Ludmila Aleksejeva, Inese Polaka

ONTOLOGY-BASED SYSTEM DEVELOPMENT FOR MEDICAL DATABASE ACCESS 24

Peter Grabusts

POTENTIAL FUNCTION METHOD APPROACH TO PATTERN RECOGNITION APPLICATIONS 30

Gubanihina Elena, Klyueva Elena, Kudakova Natalya, Naumova Tatyana, Zhestkova Elena

THE PEDAGOGICAL POTENTIAL OF INFORMATION AND COMMUNICATION TECHNOLOGIES IN THE FORMATION OF ETHNIC AND CULTURAL AWARENESS OF YOUNGER SCHOOLCHILDREN 36

Lauma Jokste, Janis Grabis

RULE BASED ADAPTATION: LITERATURE REVIEW 42

Normunds Kante, Juris Lavedels, Nikolajs Kriščuks

EXPERIENCE OF OBTAINING THE PLAN OF EXPERIMENTS, WITH USING MODELS OF INTERACTION OF CHARGED PARTICLES 47

Jānis Kampars, Krišjānis Pinka

AUTO-SCALING AND ADJUSTMENT PLATFORM FOR CLOUD-BASED SYSTEMS 52

Vasily Karasev, Ekaterina Karaseva

LOGICAL AND PROBABILISTIC METHOD FOR RISK MANAGEMENT IN SOCIO-ECONOMIC SYSTEMS 58

Sabina Katalnikova, Leonids Novickis

VARIOUS ASPECTS OF INTELLIGENT COLLABORATIVE EDUCATIONAL SYSTEMS 67

Ilze Kazaine

EVALUATING THE QUALITY OF E-LEARNING MATERIAL 74

Sergejs Kodors

GEOMETRIC FEATURE SELECTION OF BUILDING SHAPE FOR URBAN CLASSIFICATION 78

Lienīte Litavniece, Daina Znotiņa

CUSTOMER BEHAVIOUR DOING ONLINE SHOPPING: LATVIA'S CASE 84

Kristine Mackare, Anita Jansone

RESEARCH OF GUIDELINES FOR DESIGNING E-STUDY MATERIALS 90

Irina Medvedeva, Oxana Martynyuk, Svetlana Pan'kova, Irina Solovyova

ON THE FORMATION OF STUDENT'S E-PORTFOLIO 97

Pavels Narica, Lyubomir Lazov, Artis Teilans, Peteris Grabusts, Edmunds Teirumnieks, Pavels Cacivkins

METHOD FOR COLOR LASER MARKING PROCESS OPTIMIZATION WITH THE USE OF GENETIC ALGORITHMS 101

Padmaraj Nidagundi, Leonids Novickis

TOWARDS UTILIZATION OF LEAN CANVAS IN THE DEVOPS SOFTWARE 107

Laila Niedrīte, Darja Solodovņikova

UNIVERSITY IS ARCHITECTURE FOR THE RESEARCH EVALUATION SUPPORT 112

Inga Podjavo, Solvita Berzisa

PERFORMANCE EVALUATION OF SOFTWARE DEVELOPMENT PROJECT TEAM 118

Oskars Podziņš, Andrejs Romānovs

IT RISK IDENTIFICATION AND ASSESSMENT METHODOLOGY 124

Viktorija Ponomarenko, Leonids Novickis

A REVIEW OF INFORMATION TECHNOLOGY TRANSFER PROCESS, ITS TOPICALITY, AND RELATED MODELS 128

Natalya Prokofyeva, Marina Uhanova

METHODOLOGY OF GROUP WORK ORGANISATION FOR STUDENT LEARNING PERFORMANCE IMPROVEMENT 133

Andrejs Radionovs, Oleg Uzhga-Rebrov

COMPARISON OF DIFFERENT FUZZY AHP METHODOLOGIES IN RISK ASSESSMENT 137

Peteris Rivza, Ivars Mozga, Laima Berzina

DEVELOPMENT OF A DYNAMIC MODELLING TOOL FOR AGRICULTURAL PRODUCTION PROJECTIONS IN RELATION TO GHG MITIGATION MEASURES 143

Artyom Shootov, Yuriy Chizhov, Alexandr Oks, Alexei Katashev

THE GOOD, THE BAD AND THE UNRECOGNIZED: SMART TEXTILE SIGNAL CLUSTERING BY SELF-ORGANIZING MAP 147

Krasimir Slavyanov, Chavdar Minchev

AN ALGORITHM OF FUZZY INFERENCE SYSTEM FOR ISAR IMAGE CLASSIFICATION 154

Arthur Stepchenko

LAND COVER CLASSIFICATION BASED ON MODIS IMAGERY DATA USING ARTIFICIAL NEURAL NETWORKS 159

Oleg Uzhga-Rebrov, Galina Kuleshova

FAULT TREES AND BELIEF NETWORKS IN RISK MODELLING: A COMPARATIVE ANALYSIS 165

Margarita Vasileva, Milena Lambeva

INTELLIGENT METHODS FOR ATTESTATION OF SCIENTIFIC AND TEACHING STAFF. RASCH MODEL 171

Uldis Žaimis, Ilva Magazeina, Anita Jansone

GOLD - SECTION IN INTERACTIVE USER INTERFACE DEVELOPMENT 176

Elena Zhestkova

SUBJECT INFORMATION AND EDUCATIONAL ENVIRONMENT AS MEANS OF FORMATION OF INFORMATION AND COMMUNICATION COMPETENCE OF FUTURE PROFESSIONALS 180

Aleksejs Zorins, Peter Grabusts

LATVIAN SIGN LANGUAGE RECOGNITION CLASSIFICATION POSSIBILITIES 185

Ērika Žubule, Pēteris Grabusts, Lūcija Kavale

CREATION OF INNOVATIVE APPROACH FOR STUDY OF THE NATIONAL FISCAL SPACE 189