

SATURS

CONTENTS

Environment and Resources

Aleksandrs Adamovičs, Liena Poiša THE EFFECT OF AN INNOVATIVE FERTILIZER OF DIGESTATE AND WOOD ASH MIXTURES ON WINTER GARLIC PRODUCTIVITY	12
Aleksandrs Adamovičs, Liena Poiša, Lydiia Antypova THE EFFICIENCY OF USING ALTERNATIVE FERTILIZERS IN POTATO PLANTATIONS	17
Iluta Arbidane, Halina Synycyna, Daina Znotina, Oksana Ruža THEORETICAL AND METHODOLOGICAL ASPECTS FOR THE DEVELOPMENT OF A CREATIVE ECONOMY IN THE CONTEXT OF THE FORMATION OF AN INNOVATIVE BUSINESS ECOSYSTEM	22
Aldis Bulis, Oskars Onževs MEASUREMENT OF SUSTAINABLE DEVELOPMENT IN LATVIA	29
Ilze Busa, Didzis Rutītis EMPLOYER REPUTATION BUILDING – A MANAGERIAL CHALLENGE IN HR MARKETING	33
Galina Chipriyanova, Miglena Marinova OPPORTUNITIES AND CHALLENGES IN MODELING AN ENVIRONMENTAL MANAGEMENT SYSTEM	38
Tadeusz Chrzan PROTECTING THE ENVIRONMENT AROUND POLISH QUARRIES FROM HARMFUL SEISMIC VIBRATIONS CAUSED BY ROCK BLASTING	44
Nikolay Todorov Dolchinkov, Mihael Petkov Pavlov INFLUENCE OF METEOROLOGICAL ELEMENTS IN ACCIDENTS IN ENTERPRISES WITH RADIOACTIVE ELEMENTS OR DANGEROUS CHEMICAL SUBSTANCES IN BULGARIA	49
Nikolay Todorov Dolchinkov, Bonka Encheva Karaivanova-Dolchinkova IMPACT OF TYPES OF ELECTROMAGNETIC RADIATION ON LIVING NATURE	55
Tatjana Dunaiska, Anna Batjuka, Aleksandrs Petjukevičs, Natalja Škute PHYSIOLOGICAL RESPONSE OF SOME WHEAT CULTIVARS TO THERMAL STRESS	60
Līga Dzedule, Gunta Kalvane, Andis Kalvans TEMPERATURE AND PRECIPITATION REGIME IMPACT ON SPRING BARLEY (HORDEUM VULGARE) GROWTH IN PRIEKUĻI CASE	65

Tamara Grizane SUSTAINABILITY OF TOURISM AND THE ENVIRONMENT	70
Volodymyr Ivanyshyn, Serhii Yermakov, Oksana Bialkovska, Anatolii Rud, Mykola Vusatyi THE DISTRIBUTION OF CASH EXPENSES FOR THE CREATION OF BIOENERGY WILLOW PLANTATIONS IN UKRAINE	74
Sergejs Kodors, Marks Sondors, Gunārs Lācis, Edgars Rubauskis, Ilmārs Apeināns, Imants Zarembo RAPID PROTOTYPING OF PEAR DETECTION NEURAL NETWORK WITH YOLO ARCHITECTURE IN PHOTOGRAPHS	81
Janis Kramens, Edgars Vīgants, Sai Pavan Kanukuntla, Dmitri Goljandin, Jeļizaveta Glušņova STUDY OF THE APPLICATION OF PELLETS FROM TEXTILE MATERIAL WASTE AND BIOMASS MIXTURE IN INDUSTRIAL AND RESIDENTAL HEATING SYSTEMS	86
Oskars Kurpnieks, Māris Senkovs, Alīna Rimkus CHALLENGES OF SSF PROCESS FOR PEA AND WHEAT BRAN VALORIZATION USING TRICHODERMA SPP. FOR BIOCONTROL AGENT PRODUCTION	93
Valda Laugale, Līga Lepse, Solvita Zeipiņa INFLUENCE OF INTERCROPPING ON SOIL MICROBIAL ACTIVITY AND STRAWBERRY DEVELOPMENT	101
Iveta Linina, Gita Jansevica PLACE MARKETING IN PLANNING SUSTAINABLE DEVELOPMENT	108
Lienīte Litavniece, Sergejs Kodors, Juta Dekšne, Gunārs Lācis, Imants Zarembo, Antons Pacejs RISK ANALYSIS FOR APPLE ORCHARD SURVEY AND MONITORING USING UAV	116
Irina Maksymova, Iveta Mietule, Volodymyr Kulishov DIGITAL SOLUTIONS FOR A CLIMATE NEUTRAL ECONOMY: INTERNATIONAL FRAMEWORK OF ECO-DIGITAL PROJECTS	123
Julija Melnikova, Inga Dailidienė, Simona Graigaliūnienė, Eglė Stonkė PREREQUISITES FOR THE CREATION OF THE "FROM FARM TO SCHOOL" MODEL IN THE KLAIPEDA REGION: THE STUDY OF TARGET GROUPS' EXPECTATIONS AND PERCEPTIONS	128
Anna Mežaka, Inese Irbe, Dace Stepanova ASSESSMENT OF RARE EPIPHYTIC LIVERWORT TRANSPLANTATION METHOD IN POPULUS TREMULA FOREST	136
Ziedonis Miklašēvičs, Dmitrijs Leontjevs, Jānis Mājenieks THE IMPACT OF THE WEATHER CONDITIONS ON THE QUALITY OF BIRCH VENEER LOGS DURING WINTER HARVESTING	140

Inga Morozova, Veneranda Stramkale, Ieva Kroiča, Aldis Stramkalis IDENTIFIED RESILIENT FLAX GENOTYPES WITH IMPROVED AGRONOMIC CHARACTERISTICS FOR PRE-BREEDING	148
Gotfrīds Noviks PHYSICAL PROPERTIES OF GEOPOLYMERS MADE FROM MINERAL WASTE	155
Jelena Oreha, Aleksandra Morozova, Alberts Garkajs, Muza Kirjušina, Natalja Škute GENETIC DIVERSITY AND POPULATION STRUCTURE OF THE EUROPEAN EEL (ANGUILLA ANGUILLA) IN BALTIC LAKELAND	161
Sergejs Osipovs, Aleksandrs Pučkins THE INFLUENCE OF TEMPERATURE CONDITIONS ON THE YIELD OF BIOGAS AND METHANE, WHICH IS OBTAINED FROM AQUACULTURE WASTE	166
Krum Petrov, Evgeny Tongov MECHANICAL SYSTEM FOR WIRE ARC ADDITIVE MANUFACTURING	171
Desislava Petrova AN APPROACH TO MODELING INNOVATION OBSOLESCENCE	175
Desislava Petrova, Beata Vlahova, Angel Lengerov, Tsanka Zlateva-Petkova IMPROVEMENT OF CONSTRUCTIVE-TECHNOLOGICAL APPROACHES REDUCING INNOVATIVE OBSOLESCENCE OF INDUSTRIAL TECHNOLOGIES IN THE CONTEXT OF INDUSTRY 4.0	180
Desislava Petrova, Beata Vlahova, Angel Lengerov, Tsanka Zlateva-Petkova STUDY OF THE STATE OF INNOVATION DEVELOPMENT AND OBSOLESCENCE IN THE REPUBLIC OF BULGARIA OF COMPANIES FROM THE MECHANICAL ENGINEERING SECTOR	187
Liena Poiša, Lidiia Antypova EVALUATION OF THE EFFECTS OF HERBICIDES ON THE WEEDS AND THE PRODUCTIVITY OF HYBRIDS MAIZE	195
Dimcho Pulov, Tsanko Karadzhov, Yuliya Pulova-Ganeva A VARIANT FOR USING REGRESSION ANALYSIS TO ASSESS THE ELECTROMAGNETIC ENVIRONMENT IN AN URBAN AREA	200
Galia Shulga, Vadims Shakels, Sanita Vitolina, Brigita Neiberte, Anrijs Verovkins POLYELECTROLYTE COMPLEX NANOPARTICLES OF SOLUBLE LIGNIN AND CHITOSAN AS INTERFACIAL MODIFIER	204
Andris Skromulis, Juris Breidaks, Mārtiņš Puķītis WETLAND CHANGE DETECTION USING SENTINEL-2 IN THE PART OF LATVIA	209

Veneranda Stramkale, Inga Morozova, Larisa Černova, Aldis Stramkalis INDUSTRIAL HEMP VARIETIES PRODUCTIVITY POTENTIAL IN THE LATVIAN CLIMATIC CONDITIONS	214
Rasma Tretjakova, Aija Brakovska, Jana Paidere CHARACTERIZATION OF THE ZOOPLANKTON COMMUNITY OF A SHALLOW LAKE WITH ORGANIC-RICH SEDIMENT	220
Rasma Tretjakova, Jana Paidere, Aija Brakovska ASSESSMENT BY MACROINVERTEBRATES OF THE ECOLOGICAL QUALITY OF SHALLOW LAKE WITH RICH SAPROPEL SEDIMENTS	228
Inta Umbraško, Anna Batjuka, Aleksandrs Petjukevičs, Mihails Pupins, Natalja Škute ESTIMATION OF SALMONELLA SPP. PREVALENCE AND DIVERSITY AMONG FREE-LIVING TURTLES AND A ZOO COLLECTION	235
Velga Vevere, Inga Shina THE FACTORS OF GREEN MARKETING AFFECTING CONSUMER PURCHASE INTENTION IN LATVIA	240
Imants Zarembo, Sergejs Kodors, Ilmārs Apeināns, Gunārs Lācis, Daina Feldmane, Edgars Rubauskis DIGITAL TWIN: ORCHARD MANAGEMENT USING UAV	247
Rosita Zvirgzdina, Dace Sakena, Iveta Linina PRODUCT MARKET EXPANSION STRATEGY FOR BUSINESS DEVELOPMENT OF THE COMPANIES OPERATING IN THE FIELD OF PREMISES CLEANING	252