

CONTENTS

INDUSTRIAL ENGINEERING

Bleznyuk O.V., Dziuba A.I.

TECHNICAL OPERATION OF MACHINES IN LIVESTOCK.....1

Zalyubovskiy M.G., Panasyuk I.V., Malyshev V.V.

MACHINE FOR PROCESSING PARTS WITH A KINEMATIC STEAM
OF THE FOURTH CLASS – KINETOSTATIC RESEARCH.....6

Kutkovetska T.O.

THE DEVELOPMENT TRENDS OF PNEUMATIC GRAIN DRILLS
WITH CENTRAL DISTRIBUTION SYSTEM.....12

Lutsko L.I.

MULTI-LAYER PRINTED CIRCUIT BOARD AND BASIC METHODS
OF THEIR PRODUCTION.....16

Trubachev S.I., Vorobiov M.V.

DETERMINATION OF CONDITIONS OF STRENGTH OF PIPELINES OF ENERGY
AND TECHNOLOGICAL EQUIPMENT BY METHODS OF COMPUTER MODELING.....21

AIRCRAFT AND AEROSPACE TECHNIQUES

Boiko S.M., Oliinyk Yu.L., Zhurid V.I., Yemets V.V., Moskalyk V.M., Husarova O.V.

ASPECTS OF USING ARTIFICIAL NEURAL NETWORKS IN MODERN TRAINING SYSTEMS
“CREW-HELICOPTER-ENVIRONMENT”.....26

Zaytsev E.P.

MATHEMATICAL MODELING OF A DOUBLY NONLINEAR PROBLEM
OF UNSTEADY HEAT CONDUCTION OF A TRANSVERSELY ISOTROPIC
THERMOSENSITIVE CYLINDER UNDER THE IMPACT
OF THE ZONAL HIGH-TEMPERATURE HEAT TRANSFER.....31

Kolesnychenko S.F., Rahulin S.V., Sharabaiko A.N.

SYNTHESIS OF AN ACTIVE SIDE CONTROL SYSTEM
FOR AN UNMANNED AERIAL VEHICLE.....39

Olali N.V., Osaisai E.F., Olali M.O.

SYNTHESIS OF AUTOMATIC SYSTEM OF ANTI-SURGE PROTECTION
FOR THE AVIATION GTE.....47

Chumachenko S.M., Moshenskyi A.O., Guida O.H., Mushka A.O.

DEVELOPMENT OF A STRUCTURAL-FUNCTIONAL MODEL
OF THE AVIATION SEARCH AND RESCUE SYSTEM IN UKRAINE.....56

ELECTRICAL ENGINEERING

Sydorenko O.I.

STABILIZING CONVERTER AS THE BASIS OF THE SYSTEM
OF STABILIZATION OF ELECTRIC OUTPUT VOLTAGE PARAMETERS.....66

INFORMATICS, COMPUTER ENGINEERING AND AUTOMATION

Bunke O.S., Novikov P.V.

METHOD OF OPTIMIZATION OF DATA COLLECTION ALGORITHMS
FOR NETWORK NODES OF THE IOT SYSTEM.....72

Bun V.P., Bahan T.H. SELECTION OF DEFINITIVE DIAGNOSTIC PARAMETERS OF A STEAM HEATER OF A DIRECT-FLOW BOILER USING THE METHODS THEORY OF CATASTROPHE.....	78
Vasilenko M.D., Zolotoverkh D.S., Novikov V.P., Rachuk V.O. TECHNICAL AND CONFIDENTIAL ASPECTS OF THE PRACTICAL IMPLEMENTATION OF THE ELECTRONIC-DIGITAL SIGNATURE.....	84
Vasyliiev M.V. ADJUSTMENT OF FUZZY ADAPTIVE REGULATOR OF COMPRESSOR UNIT FOR LIQUEFACTION OF NATURAL GAS.....	91
Haryst A.V. WI-FI NETWORK SECURITY ANALYSIS.....	97
Hlukhova N.V., Pisotska L.A. STATISTICAL ANALYSIS OF RADIATION BRIGHTNESS PARAMETERS DURING THE FORMATION OF GAS DISCHARGES.....	102
Gostishchev V.O., Maksimov M.V. RESEARCH OF AUTOMATIC BOILER CONTROL SYSTEM.....	108
Doobko V.A. NON-CLASSICAL MODELS OF STOCHASTIC DYNAMICAL SYSTEMS.....	114
Diachenko L.I., Ilin A.V., Shumylyak L.M., Hazdiuk K.P., Tarnovetska O.Yu. SOFTWARE AND METHODOLOGIES FOR THE IMPLEMENTATION OF AUTOMATED TESTING SYSTEMS.....	122
Zhukovskiy V.R. ANALYSIS OF THE PERFORMANCE OF IMPLEMENTATION OF THE AUTOMATIC LOAD REGULATOR SYSTEM OF HEATING BOILERS.....	130
Zhuchenko O.A., Korotynskiy A.P., Khibeba M.H. DEVELOPMENT OF AUTOMATIC ROBUST CONTROL SYSTEMS BASED ON DROPOUT PRINCIPLE.....	135
Korotun O.V., Vakaliuk T.A., Kushnirchuk O.M., Martseva L.A. THEORETICAL ASPECTS OF DEVELOPING AN INTERACTIVE WEB SERVICE OF MOVIES WITH THE ABILITY TO PREDICT THE BOX OFFICE SUCCESS OF THE FILM.....	141
Kupin A.I., Hradovyi O.V. INTELLECTUAL OPERATOR ATTENTION CONTROL SYSTEM BASED ON ENCEPHALOGRAPH.....	149
Linnik I.S. INVESTIGATION OF FUZZY LOGIC POSSIBILITIES IN MODULATING BOILER CONTROL SYSTEM.....	158
Levkin D.A., Berezhna N.G., Lukyanov I.M., Levkin A.V. MATHEMATICAL TOOLS FOR APPLIED PROBLEMS SOLVING.....	164
Maksymov M.V., Maksymova O.B., Minchev D.S. METHODS AND MODELS OF CONTROL SYSTEM WITH VARIABLE STRUCTURE OF HEAT SUPPLY OBJECTS.....	170
Marynych I.A., Serdiuk O.Yu. MATHEMATICAL MODEL OF THERMAL STATE OF WORKPIECES FOR IMPROVEMENT OF CONTROL OF METAL CRYSTALLIZATION PROCESS ON CONTINUOUS CASTING MACHINE.....	180

Melnyk O.G., Melnyk R.P. DEVELOPMENT OF THE METHOD OF INFORMATION PROTECTION OF INFORMATION AND ANALYTICAL SYSTEMS FOR MANAGEMENT OF FORCES AND MEANS OF CIVIL PROTECTION IN CONDITIONS OF DECENTRALIZATION.....	188
Mishchenko I.L. OPTIMIZATION OF REGULATORS OPERATION IN THE AUTOMATIC CONTROL SYSTEM BY A GROUP OF HEATERS.....	194
Moshenskyi A.O., Savchenko Yu.H., Huida O.H. COMBINATORIAL MEANS OF IMPROVING THE CHARACTERISTICS OF PSEUDO-RANDOM NUMERICAL SEQUENCES.....	200
Peliukh P.O. FUNCTIONAL SCHEME OF AUTOMATED SYSTEM OF REGULATION OF POWER OF NPP WITH VVER-1000 REACTOR IN THE MODE OF STEAM PRESSURE SUPPORT IN THE SECOND CIRCUIT.....	205
Pidopryhora Yu.A. MULTI-RANGE OPTO-ELECTRONIC SYSTEMS AS THE BASIS OF ACCURACY OF GEOMETRIC MEASUREMENTS.....	210
Prokop Yu.V., Trofymenko O.H., Dykyi O.V. RESEARCH OF APPROACHES TO TEACHING THE COURSE “ALGORITHMS AND DATA STRUCTURES” FOR COMPUTER SCIENCE STUDENTS.....	216
Romaniuk O.N., Snigur A.V., Kuklii D.V. OPTIMIZATION OF THE ROUTES OF CAREER GUIDANCE BASED ON THE MISSION OF A SALESMAN.....	221
Rudkovskyi O.R., Kyrychek H.H. SOFTWARE PACKAGE TO SUPPORT DISTRIBUTED INTERACTION OF NETWORK DEVICES AND APPLICATIONS.....	229
Tarakhtii O.S., Butenko O.V. SIMULATION MODEL OF SOLID WASTE AS A CONTROL OBJECT.....	235
Topchii N.V. ELECTRONIC DOCUMENT FLOW AS THE BASIS OF MODERN DOCUMENTATION AT THE ENTERPRISE.....	246
Khil V.V. PORTIVE CLASSIC AUTOMATIC SYSTEMS FOR REGULATING THE FIRST OVERLOOKING OF THE STEAM WITH THE INPUTED STEADY AT THE ADVANCED REGULATOR WITH AN INACCURATE REGULATOR.....	250
Chernyshov K.A., Maidaniuk V.P., Arseniuk I.R. DESIGNING PRINCIPLES OF MODERN VENDING SYSTEMS.....	256
Shilinh A.Yu. ARCHITECTURE OF THE RECOMMENDATIONS ONLINE SYSTEM FOR IMPROVING THE EDUCATIONAL PROCESS IN HIGHER EDUCATION INSTITUTIONS.....	263
INFORMATION ABOUT AUTHORS.....	272