

# SATURS CONTENTS

## *Defence and security technologies*

<b>Olena Agapova, Giga Abuseridze, Andrii Svintsytskyi, Janis Grasis</b> BUILDING RESILIENCE OF UKRAINIAN UNIVERSITIES IN THE FACE OF MILITARY INTERVENTION: EXPLORING FORMS AND IMPLICATION	13
<b>Andon Andonov, Radoslav Chalakov</b> METHOD FOR KINETIC ARMOUR-PIERCING MUNITIONS EFFECTIVENESS ESTIMATION	19
<b>Andrii Andres, Nataliia Sorokolit, Andrii Mandiuk, Olha Rymar, Olena Khanikiants</b> THE IMPACT OF SPORTS ACTIVITIES ON THE PSYCHO-EMOTIONAL STATE OF CADETS IN HIGHER EDUCATION INSTITUTIONS DURING WARTIME	23
<b>Anelia Atipova</b> THE EUROPEAN TEMPORARY PROTECTION DIRECTIVE AND THE UKRAINIAN REFUGEE CRISIS	27
<b>Blagovest Bankov</b> ANALYSIS OF THE FORMATION OF CAVITATION CAVITY DURING THE MOVEMENT OF A MODIFIED BULLET OF 7.62X39 AMMUNITION IN A WATER ENVIRONMENT	32
<b>Blagovest Bankov</b> ANALYSIS OF THE INFLUENCE OF THE OGIVE RADIUS OF A 7.62X39 AMMUNITION BULLET ON THE CAVITATION CAVITY	37
<b>Ilze Bērziņa</b> THE IMPORTANCE OF DESIGNING OF INFORMATION SYSTEMS AND DATA EXCHANGE POSSIBILITIES TO CARRY OUT MULTIDISCIPLINARY COOPERATION TO PREVENT VIOLENCE AGAINST CHILDREN	41
<b>Jordan Deliversky</b> ILLEGAL MIGRATION PROCESSES MANAGEMENT IN THE LIGHT OF THE NEW EUROPEAN UNION PACT ON MIGRATION AND ASYLUM	45
<b>Todor Dimitrov</b> APPLYING ARTIFICIAL INTELLIGENCE FOR IMPROVING SITUATIONAL AWARENESS AND THREAT MONITORING AT SEA AS KEY FACTOR FOR SUCCESS IN NAVAL OPERATION	49
<b>Yana Dimitrova</b> ANALYTICAL MODEL FOR DETERMINING THE FRICTION FORCE AT THE CONTACT OF A METAL BODY WITH A COPPER CONTACT SURFACE	56
<b>Yana Dimitrova</b> EVALUATION OF WEAR MECHANISM OF SPECIAL PURPOSE MACHINE ELEMENTS	61
<b>Dilyana Dimitrova, Ivaylo Dimitrov</b> SECURITY ANALYSIS OF LIGHTWEIGHT CRYPTOGRAPHIC ALGORITHMS	65

<b>Radostin Dimov, Zhaneta Savova</b> ANTIVIRUS PERFORMANCE EVALUATION AGAINST POWERSHELL OBFUSCATED MALWARE	71
<b>Jelena Djubina</b> THE GENESIS OF THE CRIMINAL'S PERSONALITY IN THE DIGITAL AGE	79
<b>Nikolay Todorov Dolchinkov, Nikolay Bonev Nichev</b> GAMMA-BACKGROUND RADIATION CONTROL SYSTEMS AS A FACTOR OF BULGARIA'S NATIONAL SECURITY	83
<b>Petko Dimov, Georgi Marinov</b> HAZARDS POSED BY THE WAR IN UKRAINE: A STUDY OF POPULATION INFORMATION RISK AND MITIGATION EFFORTS	89
<b>Grigor Grigorov</b> MOTIVATION FOR CHOOSING AN OFFICER CAREER	95
<b>Grigor Grigorov</b> MODEL FOR RECRUITING SERVICEMEN IN THE ARMED FORCES	101
<b>Yordan Hristov, Ivan Minevski</b> ALGORITHM FOR DIAGNOSIS OF THE TANK WEAPON STABILIZATION SYSTEM “COMPLEX 2E28M” IN „TARGETING“ MODE	109
<b>Maria Ilcheva</b> GREEN AND SOCIAL INNOVATIONS IN PROVIDING EFFECTIVE PREVENTION AND SECURITY FOR ACTIVE AGEING	113
<b>Nikolay Iliev</b> INDICATORS OF MILITARY CAPABILITIES OF ENEMY SABOTAGE- RECONNAISSANCE GROUPS AND THEIR MODELLING	117
THE NUCLEAR FAMILY IN MODERN TERRORISM	121
<b>Galina Hristova Ivanova, Ivan Nikolaev Minevski</b> METHODOLOGY FOR TESTING PHYSICAL SAMPLES (MODELS) OF A CHEMICAL POWER SOURCE INTENDED FOR SINGLE USE IN DEFENCE INDUSTRY PRODUCTS	125
<b>Galina Hristova Ivanova</b> DEVELOPMENT OF A PROGRAM FOR CONDUCTING TESTS WITH PHYSICAL SAMPLES OF A DEFENCE INDUSTRY PRODUCT	131
<b>Amit Joshi, Aivars Spilbergs, Elīna Miķelsone</b> AI-ENABLED DRONE AUTONOMOUS NAVIGATION AND DECISION MAKING FOR DEFENCE SECURITY	138
<b>Komil Kerimov, Zarina Azizova</b> ADAPTIVE MODEL FOR PROTECTION OF ELECTRONIC RESOURCES AGAINST INFORMATION SECURITY THREATS	144
<b>Kaloyan Kolev, Yordan Shterev</b> WIRELESS SECURITY ISSUES	150

<b>Krastyu Ivanov Krastev</b> THE CONTRIBUTION OF THE MILITARY SCHOOL TO THE BUILDING OF THE NATIONAL SECURITY SYSTEM OF BULGARIA IN THE PERIOD 1878-1885	<b>155</b>
<b>Krasimir Kalev, Lyubomir Manov</b> A PRELIMINARY STUDY OF PHOTON RADIATION ATTENUATION FROM BALLISTIC PROTECTION MATERIALS	<b>160</b>
<b>Rosen Lazarov</b> RESEARCH ON THE CHANGE IN BALLISTIC CHARACTERISTICS OF AMMUNITION WITH A MODIFIED PROJECTILE SHAPE DURING ITS MOVEMENT IN AN AIR ENVIRONMENT	<b>164</b>
<b>Rumen Marinov</b> CONTEMPORARY CHALLENGES TO THE PROTECTION OF THE COUNTRY'S SOVEREIGNTY	<b>168</b>
<b>Rumen Marinov</b> MODEL OF MANAGEMENT OF PROCESSES AND PHENOMENA'S IN THE MILITARY SECURITY SYSTEM	<b>173</b>
<b>Dilyan Markov</b> USE OF ARTILLERY FIRE SUPPORT ASSETS IN THE ATTRITION APPROACH IN THE RUSSIA-UKRAINE CONFLICT	<b>178</b>
<b>Tsveta Veselinova Monova</b> LEGAL FRAMEWORK OF THE EU POLICY IN THE FIELD OF DEFENCE SPACE TECHNOLOGY	<b>183</b>
<b>Maria Neikova</b> LEGAL APPROACH TO IMPLEMENTING SECURITY MEASURES FOR COMBATING THREATS TO NATIONAL CRITICAL INFRASTRUCTURES	<b>190</b>
<b>Nikolay Iliyanov Padarev</b> APPLICATION OF SOFTWARE PLATFORMS TO ENHANCE EARLY WARNING AND DETECTION SYSTEM CAPABILITIES FOR NUCLEAR WEAPONS THREAT	<b>194</b>
<b>Jakub Pavlik, Tomas Rozsypal</b> EFFECT OF PRECIPITATION AND CONTAMINATION ORIGIN ON THE EFFICIENCY OF PINACOLYL ALCOHOL IDENTIFICATION IN CONCRETE DEBRIS	<b>199</b>
<b>Irena Peteva, Ivanka Pavlova, Daniela Pavlova</b> EFFECTIVENESS OF ELECTRONIC GOVERNANCE IN CRISIS MANAGEMENT	<b>206</b>
<b>Nikolay Petrov</b> COMPLEX OF ACTIVITIES SUPPORTING THE MANAGEMENT OF THE RADIO FREQUENCY SPECTRUM IN MILITARY OPERATIONS	<b>210</b>
<b>Ivo Radulov, Teodora Georgieva</b> A SCREENING METHOD FOR C2 EXPERT ASSESSMENT	<b>213</b>
<b>Ivo G. Radulov</b> MODELLING OF CAPABILITY-BASED DEFENCE PLANNING PROCESSES	<b>218</b>

<b>Normunds Rudzitis, Aldis Čevērs, Dana Drubiņa, Sandra Karkliņa-Admine</b> A RISK-BASED CUSTOMS CONTROL SYSTEM IN FREE ZONES	224
<b>Vladislavs Sardiko</b> ATTITUDES OF LATVIAN EXTERNAL BORDER CUSTOM OFFICERS TOWARDS WORK	232
<b>Zhaneta Savova, Rosen Bogdanov</b> SOME SPECIFIC FEATURES IN THE CONSTRUCTION OF P-ARY REED-SOLOMON CODES FOR AN ARBITRARY PRIME P	237
<b>Hristo Stanev, Stefan Hristozov</b> APPLICABILITY OF JARUS SORA TO STATE UAS OPERATIONS IN DISASTER RELIEF	244
<b>Vladimir Statev</b> DOES COMBAT DEPLOYMENT EXPERIENCE AFFECT THE COMMANDER'S DECISION-MAKING PROCESS?	251
<b>Veselka Stoyanova</b> RESEARCH OF THE CHARACTERISTICS OF A STEGANOGRAPHY ALGORITHM IN IMAGES WHEN USING DIFFERENT ALPHABET	255
<b>Iliya Stoychev, Iliyan Hutov</b> NIGHT VISION MONOCULAR - BASIC ELEMENTS AND DEVELOPMENT TRENDS	260
<b>Stoyko Stoykov</b> THE SYSTEM OF EDUCATION, TRAINING AND RESEARCH IN THE FIELD OF SECURITY - MANAGING CHANGE THROUGH EXPERIENCE AND KNOWLEDGE	269
<b>Plamen Penkov Teodosiev</b> TRENDS IN THE DEVELOPMENT OF MODERN INTERNATIONAL RELATIONS. THE NEW CHALLENGES FOR DIPLOMACY	275
<b>Nikolay Tsvyatkov</b> MISSION COMMAND AND THE CHALLENGES OF THE EARLY 21-ST CENTURY	282
<b>Nikolay Tenev Urummov</b> COMMAND AND CONTROL SYSTEM OF THE COUNTRY'S DEFENSE	287
<b>Nikolay Tenev Urummov</b> IMPROVING THE LEADERSHIP, COMMAND AND CONTROL SYSTEM OF THE COUNTRY'S DEFENSE	291
<b>Steliana Yordanova, Ralitsa Yotova, Stoyan Boyanov, Stoyan Garov</b> TERRORISM – A BARBARIC TOOL AND ITS DISPROPORTIONATE COUNTERACTION IN THE CONFLICT BETWEEN HAMAS AND ISRAEL	295
<b>Radoslav Yoshinov, Monka Kotseva, Anastas Madzharov, Neda Chehlarova</b> IMPLYING CYBERSECURITY SKILLS FOR PUBLIC ADMINISTRATION EMPLOYEES	300
<b>Ralitsa Yotova</b> CONCEPTUAL MODEL OF AN AUTOMATED SYSTEM FOR PROCESSING INFORMATION FROM OPEN SOURCES AND DETECTING INFORMATION DEVIATIONS	305
<b>Zarko Zdravkov, Anelia Atipova</b> METHODOLOGY FOR EVALUATION OF STRATEGIC DOCUMENTS	312

**Martin Zahariev**

THE APPLICABILITY OF THE EU DATA PROTECTION RULES IN THE AREA OF  
NATIONAL SECURITY IN THE REPUBLIC OF BULGARIA

**317**

**Ivan Malamov**

STUDY OF THE OPERATION, MAINTENANCE, AND REPAIR SYSTEM OF THE  
BULGARIAN ARMED FORCES

**322**