TOWARDS MORE SECURE EU BORDERS EUROPEAN BORDER AND COAST GUARD

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Abstract: According to the current migration crisis, implementation of European integrated border management system at national and EU levels becomes contemporary priority of the European Union. It is aimed at effective management of processes directly related to organization of EU external borders crossing and facing challenges of large scale migration and countering potential threats at these borders. The same, its idea is to contribute to improvement of effectiveness in preventing and combating the phenomena of a cross-border crime and to ensure a high level of internal security in the European Union. To ensure effectiveness of implementation of these objectives, a new formation has been established at the present time – the European Border and Coast Guard. In this article authors analyse system of integrated management of external borders of the European Union and characterize its purpose, organization, structure and powers of this new EU agency - European Border and Coast Guard.

Keywords: Cross-border security, refugee crisis, the Schengen area, border protection, border management, immigration policy.

LOW LEVEL PROFILE SECURITY ANALYSIS IN WIRELESS ENVIRONMENT

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Abstract: In relation to Contemporary cybernetic threat analysis [1, 14] we try to predict mobile data traffic tender by extending the CAGR forecasting method (Compound Annual Growth Rate) released from Cisco [2]. By extending the forecasting, we identified equilibrium between infrastructural data and mobile data volume occurs in the year 2026. The conclusion gives us a good reason to concentrate our effort on analysis mobile security with focusing on WIFI (Wireless Fidelity) infrastructure networks protection. Our intent is to provide a detailed elaboration of the widely used WIFI security principles emphasizing their partial weakness based on core algorithms. As the goal of this paperwork, we also provide a limited elaboration of differences among them in order to theoretically figure out the level of their safety.

Keywords: mobile data, fixed internet data, access point, wireless security, wireless fidelity, pass phrase, seed, key stream, encryption, decryption, cipher text, pre-shared key, pair-wise transient key, open key authentication, shared key authentication.

CHALLENGES AND THREATS FOR THE INTERNATIONAL SECURITY AS THE CONSEQUENCE OF THE RUSSIAN FEDERATION'S HYBRID WAR

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Abstract: The current situation in Ukraine confirms that the European thesis on solving conflicts with peace categories and through the road of diplomacy does not work in a perfect way. The evaluation of the Russian Federation's activity (RF) after occupying the Crimea shows that strategic objectives of Moscow spread farther. In the strategic dimension the hybrid war led by Moscow is measured up against the entire NATO as perceived being the main threat. Past experiences in Ukraine and the theory assessment show that the new generation war run by the RF embraces multi-storey efforts directed at the state's function destabilizing, changing the internal order or/and leading to the state's bankruptcy not even necessarily seizing its territory. The complex nature of the hybrid threats requires undertaking integrated actions by the international community. It seems it will be possible to reach it while having the common NATO and EU doctrine on the hybrid threats counteraction. States, particularly those endangered, should draw up and implement their own accustomed strategy of the national security that will let opposing both classical and hybrid threats, with as well as without the NATO aid.

Keywords: hybrid war, threats, the Russian Federation, Ukraine, NATO, the European Union.

OPTIMAL SENSOR DISLOCATION FOR TARGET LOCALIZATION IN 2D AND 3D AREA

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Abstract: The following paper describes the possibilities of UAV (Unmanned Aerial Vehicles) employment where the radar sensors are part of it in the area of NEC (Network enabled capability) in armed forces domain. The main task is to discover the methodology of how to disseminate each individual UAV in 2D and 3D area in order to achieve the best estimate of target position. Each individual optimization strategy is proven by simulation in Matlab and based on the mathematical concept expressing the sensor matrix layout.

Keywords: NEC, Network enabled capability, UAV, sensors, TDOA.

SWOT ANALYSIS TOOL FOR RESTRUCTURING OF SELECTED ORGANIZATIONS SECURITY AND PUBLIC ORDER

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Abstract: Transformation of social and economic, with which we have to deal with in recent years in Poland, apart from the positive aspects, has generated a lot of negative phenomena, new types of crime. This situation compels the police, as the basic organization of the subsystem of security and public order to improve efficiency. Improving the effectiveness of that determines the effectiveness of the whole system of security and public order and the delivery of services provided by this organization in the field of security and public order. The paper presents definitions, determinants and models of safety management as well as the positive and negative phenomena associated with the method of SWOT in the selected units of the Police.

Keywords: qualitative management, police, security, public safety, SWOT.

UKRAINE IN DIRE STRAITS: THE CONUNDRUM OF ENSURING ITS MILITARY SECURITY

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Abstract: This article examines how Ukraine, under the exigency of Russia's aggression, can ensure its military security and state sovereignty. The following are examined: the possibility of ensuring the military security of Ukraine through its participation in international organisations, signing bilateral and multilateral international treaties and strengthening its defence capability. Non-aligned or neutral status is considered as a possibility for neutralising military threats to Ukraine. The conclusion is that only NATO membership can guarantee the comprehensive military security of Ukraine.

Keywords: military security, sovereignty, Ukraine, the Russian Federation, the UN, NATO, the European Union.

THE GENDER ISSUE IN THE POLISH ARMED FORCES ON THE EXAMPLE OF PEACE AND STABILIZATION OPERATIONS

Dariusz KOZERAWSKI

Abstract: The paper presents the engagement of Polish Military Contingents in international activities as stabilization and peace missions carried out in Afghanistan and Iraq. Moreover the author emphasizes the support role of women-soldiers serving in the Polish Armed Forces in international peace and stabilization operations led within UN and NATO, namely in the Balkans, Afghanistan and Iraq. This paper also brings closer the question of the crisis situations causes and the relations between their participants – stressing the attention on women-soldiers – based on unique field research provided by the author in the Republic of Iraq, Kosovo, Bosnia and Afghanistan.

Keywords: gender issue, Polish woman-soldiers, peace and stabilization missions, international security.

POSSIBILITIES IN DEVELOPMENT OF THERMAL CAMOUFLAGING

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Abstract: The paper discusses the possible approaches in development of thermal camouflaging systems for the mobile military technics. In general, it is possible either to insulate the heat inside the vehicle or to design the camouflaging systems with the vented walls. Which way has a higher potential in the next development? To investigate the possibilities of thermal camouflaging firstly we have realized some mathematical calculations, then we have designed a simulation models that we have tested in the software Area 2010. After all we have also designed some real samples of the thermal camouflaging panel and we have realized the experiments in the real conditions. More you can discover in our paper.

Keywords: mobile military technics, thermal camouflage, heat flux calculations, thermovision, camouflaging systems.