

CONTENTS

ANTKIEWICZ Ryszard, KULAS Wojciech, PIERZCHAŁA Dariusz, WASZKOWSKI Robert	11
Dynamic BPM for Decision Support in Crisis and Conflict Situations	
ANTKIEWICZ Ryszard, KASPRZYK Rafał, NAJGEBAUER Andrzej, TARAPATA Zbigniew	17
The Concept of C4IS Topology Optimization Using Complex Network	
AURISCH Thorsten, DAHLBERG David, LIES Martin, SEVENICH Peter	28
An approach towards traffic flow confidentiality in military IPsec protected networks	
BILSKI Tomasz	39
Trends in Quality of Service on Long-Distance Connections	
BLAŠKOVÁ Eubica, HOLUB Jan, NOVÁK Jiří	47
Speech Quality Aspects and Issues in NNEC	
BOROWSKI Mariusz, WICIK Robert	55
Survey of Some Cryptographic Aspects of the TRC 9000 Series Radios, the Polish Information Security Module Called RCM and the JTRS Radios	
BRYŚ Rafał, RUSZKOWSKI Mirosław, ZUBEL Krzysztof	64
Problems of Mobility Management in Wireless Networks in Urban Operations	
BUŘITA Ladislav, GARDAVSKÝ Pavel, MARC Michal	72
Knowledge Management of the Network Enabled Capability	
CASINI Enrico, MAKSIMIUK Darek, STREET Michael, TASCH Andreas, KILIAN Gerd, FISCHER Jörg, HEUBERGER Albert	76
NATO tactical narrowband waveform: development and performance of functional software	
	86
CHMIELEWSKI Mariusz, GAŁKA Andrzej	
Automated Mapping JC3IEDM Data in Tactical Symbology Standards for Common Operational Picture Services	
COUSIN Martin, HAAG Jens, KARSCH Stefan, ROGGE Henning, WENZEL Alexander	102
Beyond Black Holes and Worm Holes: Novel Attacks on MANETs and their Effectiveness	
COUTURIER Stefan, SCHEERS Bart	111
The State of the Art of Dynamic Spectrum Access	
DELA Piotr, BIERNACIK Bartosz	120
Information Domains – new approach to information management	
DONOVANG-KUHLISCH C. Margarete, SMALL K. Michael	131
Agile Policy Delivery through Smart Knowledge Discovery and Decision Support	

DRAGOLOV Daniel, NOVÁK Aleš	143
Service Oriented Architecture– concept of services, infrastructure components, implementation practices and military environment specifics	
DUDA Damian, PYDA Piotr, STAŃCZAK Andrzej	153
Admission Control for Telecommunications Infrastructure in Federation of Systems	
DUDA Damian, LUBKOWSKI Piotr, AMANOWICZ Marek	159
SIP Enhancement for the Federation of Tactical Systems	
EUDELIN David	166
Prototyping for Community of Interest in a SOA System, Demonstration at C2 NATEX	
GAJEWSKI P., JARMAKIEWICZ J., LUBKOWSKI P., KRYGIER J., LIES M., SEVENICH P.	175
Resource Management Procedures in Mobile Military Networks	
GINZLER Tobias., DOLOWSKI Jerzy., AMANOWICZ Marek	183
Evaluating a Peer-to-Peer System in a Simulated Tactical Environment	
GLIWA Rafal	190
An Overview of Authenticated Encryption Schemes	
GOODE Rob, HALLINGSTAD Geir, WRONA Konrad	199
Dynamic federated accreditation	
GUIVARCH Patrice, DHERSIN Julien, AGEORGES Jonathan, FROMENTIN Eddy	207
Using IPv6 Any Cast to Improve Geographical Multicasting	
HAGARA Ladislav	215
Security aspects of source-based GNU/Linux distributions	
HAZA Grzegorz, MAKOWSKI Ryszard	223
Iterative Digital Turbo Receiver for Wireless Channels with Single Carrier Frequency Domain Equalization	
HAZA Grzegorz, GORSKI Maksymilian, GOLENKO Bartłomiej	229
Software Radio Platform based on XUP V2Pro board with dedicated ADC, DAC and RF extension modules and PowerPC based Linux system for control purposes	
HOLUBOWICZ Witold, SAMP Krzysztof, ADAMCZYK Andrzej, DYMOWSKI Wojciech, RENK Rafal	235
Procedure-based training as an important element of mission preparedness	
HRŮZA Petr	243
A Localization System and Management of Mobile Human Resources and Means for Dealing with Crisis Situations in Transport	

JAHNKE Marko, KLEIN Gabriel, TÖLLE Jens, MARTINI Peter Protecting Military Networks with GrADAR – Graph-based Automated DoS Attack Response	246
JALOVECKY Rudolf, BAJER Josef Systematic Proposal of Aircraft Electronic System with CANaerospace Protocol	255
JANU Premysl, BAJER Josef Practical Implementation of CANaerospace Protocol in LabVIEW Environment	259
JASIUL Bartosz, GONIACZ Robert, PIOTROWSKI Rafal Authentication and Authorization for Multi-Level Information Exchange in Federation of Systems	264
JEŘÁBEK Jaroslav, VAŠEK Milan Potential interoperability Complex Integrated ATC Support System in NEC Environment	272
JOHNSEN T. Frank An NFFI-based Web service discovery mechanism for tactical networks	279
KADERKA Josef, HALOUZKA Kamil, LUŇÁČEK Oldřich Topic Maps and Knowledge Management in the NEC Security	287
KIVIHARJU Mikko, CANDOLIN Catharina, HALLINGSTAD Geir Detecting Hostile Dataflows with Packet Level Authentication in Protected Core Networking	293
KOSMOWSKI Krzysztof The efficiency of MIMO space-time coding scheme in a non-AWGN environment	301
KOSOWSKI Tomasz Ziemowit, APIECIONEK Łukasz JASMINE system: network centric concept and practical solution	307
KREUZER Sebastian, LIEDTKE Ferdinand Multiple Equalizer Combination Method based on a Switching Criterion for Non-cooperative Reception Applications	315
KRYGIER Jaroslaw, MAŚLANKA Krzysztof, BEDNARCZYK Mariusz Evaluation of the Mobility Impact on the IP and MAC Forwarding Integration in Mobile Ad-Hoc Networks	324
KRYGIER Jaroslaw, LUBKOWSKI Piotr, MAŚLANKA Krzysztof Simulation Study of Selected QoS Supporting Components for NEC Compliant Networks	332
KUBERA Emil, MILEWSKI Jaroslaw, ROZYCKI Marek QoS support in the special wireless networks	340
LAUWENS Ben, FALLIER Renaud, SCHEERS Bart Validation of an Event-Driven Simulator for the Non Beacon-Enabled IEEE 802.15.4	348

LUKAS Ludek Communication and Information Support as Fundamental of NEC	358
MAZAL Jan Real time maneuver optimization	363
MROCZKOWSKI Piotr, SZMIDT Janusz The Cube Attack on Stream and Block Ciphers	369
MUCHEWICZ Krzysztof, SIERAKOWSKI Lukasz Means for operational data exchange in JASMINE System	375
NEČAS Pavel, ANDRASSY Vladimír Information, Technology and Human Security: New Approach Requested	383
OSTROWSKA Urszula, TOELLE Jens, SEVENICH Peter, AMANOWICZ Marek Towards Multilevel Security Provision in Coalition Environments	390
PALKA Robert, WOŹNIAK Marcin XML Guard as a base service utilized to provide Information Exchange Gateway Functional Services in IEG JASMINE	400
REIN Kellyn, FREY Miłosław Towards a Simple Model for Predictive Threat Assessment	408
ROGGE Henning, KLEIN Gabriel, WENZEL Alexander, JAHNKE Marko Improvement of IP-based MANET Emulation	416
ROMANIK Janusz, GAJEWSKI Piotr, JARMAKIEWICZ Jacek MAC Protocol Extension for VoIP Support in Wi-Fi ad-hoc Network in Urban Environment	426
ROZYCKI Marek, BRYŚ Rafal, PSZCZOLKOWSKI Jacek Multicast Services in Mobile Wireless Network in Urban Operations – Simulation Tests	434
SLIWA Joanna, DUDA Damian Adaptive web services supported by QoS IP network	448
STENUMGAARD Peter, JUNHOLM Leif, WIKLUNDH Kia GENESIS – A Software-Based Research Platform for Intersystem-Interference Analyses on e.g. Camps	457
STREET Michael, BOTTESINI Brian, RUSSO Rita, DELAERE Patrick, ELZINGA Gerard, MURTLAND Ric Providing Interoperable Secure Voice in Converging Heterogenous Networks: the NATO Secure Voice Strategy	462
SZLACHETKO Bogusław, LEWANDOWSKI Andrzej, ZARZYCKI Jan Application of the Software Defined Radio in a Passive Radar	470

UEBLER Ulla, KOLB Hans-Joachim Challenges in Intelligence Fusion	476
UYSAL Mutlu, MASSART Jean-Paul The Utilization of Network Enabled Capability by an Air C2 System	484
WICK Robert, LEŚNIEWICZ Marek, BOROWSKI Mariusz, ZABŁOCKI Janusz Information Security Module for Military Radio Communications	494
WINKLER Michael, BARTOLOMASI Paolo, NESSE Lars Multi-Hop Networking for Intelligence, Surveillance and Reconnaissance UAS Missions	500
YILDIRIM Yakup, CETINKAYA Orhan, FORTIER Michel Coordination and Collaboration in Time Sensitive Targeting	509