

PROGRAM

International Conference on Military Communications and Information Systems ICMCIS2018

Bellotto Hotel, May 22-23 2018

Monday, 21 May 2018

6:30pm	Registration (Hall)
7:00pm	Welcome Reception (Bellotto Hotel; Basement)

Tuesday, 22 May 2018

8:30am	Registration (Hall)		
9:30am	Opening session (Column Hall) Chair: Jerzy Lopatka		
9:30am	Opening words		
	Welcome words: Peter Lenk, ICMCIS Steering Committee Chair		
	Organization remarks: Jerzy Lopatka, ICMCIS TPC Chair		
9:50am	Keynote: Col. Robert Drozd - Chief of Command and Control Directorate-J6, PL MOD		
10:20am	Keynote: Dr. Thomas Killion - NATO Chief Scientist		
10:50am	Coffee (Marble & Yellow Hall)		
11:10am	Session: Mobile ad'hoc Networks (Column Hall) Chair: Markus Antweiler	Session: Cyber Defence (Blue Hall) Chair: Michael Street	
	Simon RUFFIEUX, Christophe GISLER, Jean-Frederic WAGEN, Francois BUNTSCHU, Gerome BOVET: TAKE - Tactical Ad-Hoc Network Emulation	Alexander KOTT, Paul THERON, Benoît LEBLANC, Martin DRAŠAR, Krzysztof RZADCA, Luigi MANCINI, Agostino PANICO, Mauro PHELIGAS: Towards an Active, Autonomous and Intelligent Cyber Defense of Military Systems: the NATO AICA Reference Architecture	
	Arwid KOMULAINEN, Jimmi GRÖNKVIST, Ulf STERNER: On the Performance of Using CSMA for Broadcast Traffic in Tactical Ad hoc Networks	Thorsten AURISCH, Andreas JACKE: Handling Vulnerabilities with Mobile Agents in order to consider the Delay and Disruption Tolerant Characteristic of Military Networks	
	Filippo POLTRONIERI, Roberto FRONTEDDU, Cesare STEFANELLI, Niranjan SURI, Mauro TORTONESI, Matthew PAULINI, James MILLIGAN: A Secure Group Communication Approach for Tactical Network Environments	Thibault DEBATTY, Wim MEES, Thomas GILON: Graph based APT detection	
	Anders FONGEN, Geir KØIEN: Trust Management in Tactical Coalition Software Defined Networks	Damian JANKOWSKI, Marek AMANOWICZ: A study on flow features selection for malicious activities detection in Software Defined Networks	
12:50pm	Lunch (Basement)		
2:00pm	Session: Mobile ad'hoc Networks 2 (Column Hall) Chair: Piotr Gajewski	Session: Concepts and Solutions (Blue Hall) Chair: Harri Saarnisaari	
	Stefan COUTURIER, Timo BRÄYSY, Boyd BUCHIN, Jaroslaw KRYGIER, Vincent LE NIR, Niels SMIT, Topi TUUKKANEN, Erik VERHEUL: End-to-End Optimization for Tactical Cognitive Radio Networks	Marc RICHTER, Michael STREET, Peter LENK: Deep Learning NATO confidentiality labels - A preliminary investigation	
	Topi Juhani TUUKKANEN, Timo BRÄYSY, Stefan COUTURIER, Jaroslaw KRYGIER, Vincent LE NIR, Boyd BUCHIN, Erik VERHEUL, Niels SMIT: Assessment of Cognitive Radio Networks through Military Capability Development Viewpoint	Stefan APELT, Hanna GEPPERT, Hussein HASSO, Thomas KUDLA: Measuring the Coverage of Requirements through Enterprise Architecture Models	
	Giacomo BENINCASA, Larry BUNCH, Enrico CASINI, Rita LENZI, Alessandro MORELLI, Matthew PAULINI, Niranjan SURI, Andrzej USZOK: Bridging the Gap Between Enterprise and Tactical Networks via Mission and Network Sensitive Adaptation	Michael GERZ, Nico BAU, Sven ENDRES, Fahrettin GÖKGÖZ: Cloud-Based Architecture for an Interoperable, Resilient, and Scalable C2 System	
	Introduction to NBWF demonstration: Piotr WARPECHOWSKI, Vincent Le NIR Results on the interoperability tests for the NATO NBWF	Frank T. JOHNSEN, Zbigniew ZIELINSKI, Konrad WRONA, Niranjan SURI, Christoph FUCHS, Manas PRADHAN, Janusz FURTAK, Bogdan VASILACHE, Vincenzo PELLEGRINI, Michal DYK, Michal MARKS, Mateusz KRZYSZTON: Application of IoT in Military Operations in a Smart City	
3:40pm	Coffee (Marble & Yellow Hall)		
4:00pm	Session: Industrial Partners (Column Hall) Chair: Marek Sucharński		
	Philippe MISSUD (ATDI): An innovative and cost-effective solution for Dynamic Spectrum Allocations		
	Piotr WARPECHOWSKI (WB GROUP): The future of communication on a multi-domain battlefield		
	Jacek RZEŹNICKI (Radiotechnika Marketing): Radiotechnika Marketing Ltd. - reliable fiber optic harness producer		
	Bartosz GRZESIUK (GISS): Integrated Services in SATCOM Manpack Terminal - Flexible Wideband Communication for BMS		
5:00pm	Session: Poster (Column Hall) Chair: Joanna Śliwa	NBWF Demonstartion (Blue Hall) Chair: Vincent Le Nir	IoT Demonstartion (Raspberry Hall) Chair: Niranjan Suri
	Youssef Mahmoud YOUSSEF, Daniel OTA: A General Approach to Health Monitoring & Fault Diagnosis of Unmanned Ground Vehicles		
	Andrzej SIKORA, Mateusz KRZYSZTON, Michal MARKS: Application of Bluetooth Low Energy Protocol for Communication in Mobile Networks		
	Oleg CHERTOV, Taras RUDNYK, Oleksandr PALCHENKO: Search of phony accounts on Facebook. Ukrainian case		
	Sebastian SZWACZYK, Konrad WRONA, Marek AMANOWICZ: Applicability of risk analysis methods to risk-aware routing in software-defined networks		
	Alexander HAMILTON, Joseph KELLETT, John WILLIAMS, Choong-Hin WONG: Sub-Block Turbo Equalization for CPM waveforms in Multipath Environments		
	Daniel OTA, Manas PRADHAN: Modular Verification and Validation for NATO Generic Vehicle Architecture-based Land Platforms		
	Robert WASZKOWSKI, Tadeusz NOWICKI, Maciej KIEDROWICZ, Kazimierz WORWA: Information management system for an administrative office with RFID-tagged classified documents		
	Janusz ROMANIK, Rafał BRYŚ, Krzysztof ZUBEL: Performance analysis of OLSRv2 with ETX, ETT and DAT metrics in static wireless networks		
	Jan M. KELNER: Cooperative System of Emission Source Localization Based on SDF Jan M.		
7:00pm	Banquet dinner (Cafe Zamek)		

Wednesday, 23 May 2018

8:30am	Registration (Hall)	
9:00am	Session: Tactical Networks (Column Hall) Chair: Marek Amanowicz	Session: Radio Signals Processing (Blue Hall) Chair: Aaron Ethan Cohen
	Niranjan SURI, Jan NILSSON, Anders HANSSON, Ulf STERNER, Kelvin MARCUS, Levent MISIRLIOGLU, Mariann HAUGE, Markus PEUHKURI, Boyd BUCHIN, Ronald IN 'T VELT, Maggie BREEDY: <i>The Angloval Tactical Military Scenario and Experimentation Environment</i>	Marek SUCHANSKI, Pawel KANIEWSKI, Janusz ROMANIK, Edward GOLAN: <i>Radio Environment Maps for Military Cognitive Networks: Construction Techniques vs. Map Quality</i>
	Anne DIEFENBACH, Roberto RIGOLIN FERREIRA LOPES, Joanna ŚLIWA, Robert GONIACZ, Thorsten Andreas LAMPE, Christoph PRASSE, Antti VIIDANOJA: <i>Realizing Overlay Xcast in a Tactical Service Infrastructure</i>	Stéphane IMBERT, Xavier LETURC, Christophe LE MARTRET: <i>On the Simulation of Correlated Mobile-to-Mobile Fading Channels for Time-Varying Velocities</i>
	Roberto Rigolin F. LOPES, Antti VIIDANOJA, Maximilien LHOTELLIER, Anne DIEFENBACH, Norman JANSEN, Tobias GINZLER: <i>A Queuing Mechanism for Delivering QoS-constrained Web Services in Tactical Network</i>	Harri SAARNISAARI, Johanna VARTIAINEN: <i>Spectrum Window Based Signal Detection at Low SNR</i>
	Mariann HAUGE, Lars LANDMARK: <i>Limiting the Flooding of Simplified Multicast Forwarding to a Defined Scope</i>	Mateusz KUSTRA, Krzysztof KOSMOWSKI, Marek SUCHANSKI: <i>Hybrid Sensing Method of Real OFDM Signal</i>
10:40:am	Coffee (Marble & Yellow Hall)	
11:10am	Session: Wireless Technologies (Column Hall) Chair: Christophe Le Martret	Session: Electronic Warfare (Blue Hall) Chair: Bart Scheers
	Krzysztof MALON, Pawel SKOKOWSKI, Jerzy LOPATKA: <i>Optimization of the MANET coverage in urban area using redundant relay points</i>	Vincent LE NIR, Bart SCHEERS: <i>Multiple Jammer Localization and Transmission Power Estimation for Radio Environment Map</i>
	Juha YLI-KAAKINEN, Juuso ALHAVA, Markku RENFORS, Hannu TUOMIVAARA: <i>Multicarrier Waveform Processing for HF Communications</i>	Karel PÄRLIN, Muhammad Mahtab ALAM, Yannick LE MOULLEC: <i>Jamming of UAV Remote Control Systems Using Software Defined Radio</i>
	Souradip SAHA, Matthias TSCHAUNER, Marc ADRAT, Tim SCHMITZ, Peter JAX, Peter VARY: <i>Bit Interleaved Polar Coded Modulation with Iterative Decoding</i>	Jonah EISEN, Susan WATSON, Tricia WILLINK: <i>Location constrained jamming: surgical link removal using local graph partitioning</i>
	Vasco SEQUEIRA, Maria Paula QUELUZ, António RODRIGUES, José SANGUINO, Pedro GRIFO: <i>Data Rate Change Algorithms for Efficient HF Communications</i>	Taneli RIIHONEN, Dani KORPI, Matias TURUNEN, Mikko VALKAMA: <i>Full-Duplex Radio Technology for Simultaneously Detecting and Preventing Improvised Explosive Device Activation</i>
12:50pm	Lunch (Basement)	
2:00pm	Plenary Session: (Column Hall) Chair: Igor Radusinovic	
2:00pm	Christopher Stace - Head of Information Superiority Unit, European Defence Agency	
2.30pm	Prof. Krzysztof Wesolowski – Dean of Faculty of Electronics and Telecommunications, Poznan University of Technology	
3:00pm	Coffee (Marble & Yellow Hall)	
3:20pm	Session: Testbeds and Simulations (Column Hall) Chair: Risto Maatta	Session: Information Management (Blue Hall) Chair: Salvador Llopis
	Christoph BARZ, Christoph FUCHS, Jonathan KIRCHHOFF, Michael KRZYZEK, Nadine BRÜCK: <i>An Approach to Measurement-based Tactical Radio Modeling and Real Time Emulation</i>	Salvador LLOPIS, Javier HINGANT, Israel PEREZ, Manuel ESTEVE, Federico CARVAJAL, Wim MEES, Thibault DEBATTY: <i>A comparative analysis of visualisation techniques to achieve cyber situational awareness in the military</i>
	Aaron Ethan COHEN: <i>Digital Relay with Multiple Virtual Bent-Pipe Relay Channels for TSVCS and FM Voice on SDR</i>	Ksawery KRENC, Vincent NIMIER, Kellyn REIN, Lauro SNIDARO, Joachim BIERMANN, Jesus GARCIAI: <i>From Situation Awareness to Intelligence: Increasing Complexity in Fusion Models for Sense-Making</i>
	Sanjoy BASAK, Bart SCHEERS: <i>Passive radio system for real-time drone detection and DoA estimation</i>	Marco MANSO, Frank JOHNSEN, Ketil LUND, Kevin CHAN: <i>Using MQTT to Support Mobile Tactical Force Situational Awareness</i>
	Pieterjan Marc Lutgart DE MEULEMEESTER, Luc BONTEMPS, Bart SCHEERS, Guy VANDENBOSCH: <i>Synchronization Retrieval and Image Reconstruction of a Video Display Unit Exploiting its Compromising Emanations</i>	Juha Viktor KUKKOLA: <i>Civilian and military information infrastructure and the control of the Russian segment of Internet</i>
5:00:pm	Closing Session: Chair: Jerzy Łopatka	
	Best Paper Awards	
	ICMCIS 2019 Invitation	
5:20:pm	End of conference	