



# 2<sup>nd</sup> CWO Poster Session

Commission for Scientific Research (CWO)

Royal Military Academy

Technical program

5 April 2017 – 1330 Hr - 1600 Hr – Room: VIP 2

	Poster title	Authors
1	Opportunistic radar imaging using a multichannel receiver	V. Kubica, X. Neyt and H. Griffiths
2	An Improved Channel Estimation Scheme for DVB-T Passive Radars	O. Mahfoudia, F. Horlin and X. Neyt
3	Compressive Sensing and DVB-T-Based Passive Coherent Location	E. Cristofani, O. Mahfoudia, M. Becquaert, X. Neyt, F. Horlin, N. Deligiannis, J. Stiens and M. Vandewal
4	Compressed Sensing SAR Through-the-Wall Imaging with Prior Information	M. Becquaert, E. Cristofani, M. Vandewal, J. Stiens and N. Deligiannis
5	The Exploitation of Copernicus Sentinels for Change Detection	M. Stasolla and X. Neyt
6	Extraction of African urban and rural structural features using SAR sentinel-1 data	J.F. Lopez Herreros and M. Shimoni
7	Real-time Video Alignment and Change Detection For Vehicle Mounted IED Early Warning System	M. Idrissa and X. Neyt
8	Optical Flow from Maxima in Distance Transform Images	C. Beumier and X. Neyt
9	Pedestrian Detection Method using Saliency Maps, Discrete Chebyshev Moments and SVM	I. Lahouli, R. Haelterman, G. De Cubber, Z. Chtourou and R. Attia
10	Geo-location of targets using UAV images	A. Cosmin, I. Lahouli and R. Haelterman
11	Environmentally adaptive sensing for mine countermeasures	O. Lopera, S. Papili and Yves Dupont
12	Probability maps for sea mine risk assessment	E. Mersch, X. Neyt and P. Druyts
13	Simulating a (Command) Wire Detector	Y. Yvynec and P. Druyts
14	Investigation of mid-wave infrared ship signatures	G. D. Lewis and P. Merken
15	Study of solutions against security threats in the context of cognitive radios	F. Slimeni, B. Scheers, V. Le Nir, Z. Chtourou and R. Attia
16	Belgian NATO Narrow Band Waveform for Tactical Radios	V. Le Nir and B. Scheers
17	Compromising Electromagnetic Radiation	P. De Meulemeester, B. Scheers and L. Bontemps
18	Intelligent framework for Steganography/Steganalysis	D. Borghys and D. Van Heule
19	DAP-16/02: Study of cryptographic techniques with focus on symmetric key algorithms and hash functions	F. Lafitte and D. Van Heule
20	Self-Organized Patterns on Temporal Networks	J. Petit, B. Lauwens, D. Fanelli and T. Carletti
21	Simulation with SimJulia	S. Koghee, B. Lauwens, J. Van Kerckhoven and F. Van Utterbeeck
22	A virtual testing approach for random vibration tests on a modal shaker	J. Martino and K. Harri
23	Train to be the best! The impact of the HRV biofeedback and the neurofeedback trainings on pilot skills acquisition	E. Dessy, A. Fink, V. Schröder, M. Van Puyvelde and N. Pattyn

24	Methodology of a feasibility-study into the early detection of in-flight performance impairment due to hypoxia through voice stress analysis	M. Van Puyvelde, X. Neyt, E. Dessy, W. Vanderlinden, K. Vicsi and N. Pattyn
25	Effect of body posture and load on the soldier's performance	S. Scataglini, E. Truyen, J. Gallant and D. Van Tiggelen
26	Manning the equipment or equipping the man? Emergent forms of Belgian military life: innovation, corporeality and technology.	F. Vanderstraeten and D. Resteigne
27	Military manpower planning: Flow network for statutory and competence logics combination	O. Mazari-Abdessameud, F. Van Utterbeeck and M.-A. Guerry
28	Generic Strategic Level Defense Performance Measurement Framework	J. Soares, G. Letens, E. Van Aken, H. Keatley, N. Vallet and W. Van Bockhaven
29	Crisis communication in organisations	E. Snoeijers, K. Poels and J. Leysen
30	The Disaster Management Organization within the Framework of a Changing Disaster Landscape	H. De Smet, B. Schreurs and J. Leysen
31	Pré-validation de l'AUDITO: Mise en œuvre d'une analyse exploratoire à partir des modèles d'équations structurales.	P. Alonso Pena
32	Can the Law Contribute to Fighting Piracy?	I. Van Hespén
33	EM01: Home Made Explosives - Precursors' Inhibition	L. Jeunieu and M.H. Lefebvre
34	Towards a New Methodology for the Assessment of Ballistic Protection	B. Tahenti and F. Coghe
35	Schuberth helmet - Ballistic resistance assessment	A. Ferreira Azevedo, A. Miranda-Vicario and F. Coghe
36	Modelling the Behind Armour Blunt Trauma Effect	L. Gilson, F. Coghe and L. Rabet
37	Numerical Assessment of Thoracic Non-Lethal Impacts	N. Nsiampa and A. Papy
38	Survivability of combat vehicles and their crew	I. Hermosilla, M. Thys, J. Gallant and B. Lauwens
39	DY10: Lessons learned	A. Miranda Vicario, A. Azevedo and F. Coghe
40	Titanium Alloy(Ti-6Al-4V) Sheets Under Explosive Loading	D. Kakogiannis, F. Coghe and L. Rabet
41	Evaluation of a compound survival container	A. Cacoilo and J. Vantomme
42	Blast resistance of RC structures with externally bonded reinforcement	R. Mourao, A. Maazoun, B. Belkasssem and J. Vantomme
43	Robustness as a tool to improve the durability of self compacting concrete	F. Van Der Vurst, K. Lesage, J. Vantomme, L. Vandewalle and G. De Schutter
44	Reinforced concrete hollow core slabs with EBR under blast loading	A. Maazoun, S. Matthys and J. Vantomme
45	Detection and identification of chemical warfare and hazmat in the atmosphere using thermal hyperspectral and spectropolarimetric imaging	R. Haelterman, P. Lodewyckx and M. Shimoni
46	Increasing the efficiency of military respiratory protection equipment	L. Fernandez Velasco and P. Lodewyckx
47	Evolution of textural and function properties over time of different activated carbons and preparation of metal impregnated carbons for gas adsorption applications	Y. Boutillara, P. Lodewyckx and G. De Weireld
48	Multiphase Flow Modeling for CBRN Applications	Y. Nishio and B. Janssens
49	Design and construction of an ICRH system for the stellarator Wendelstein 7-X	F. Louche and J. Ongena
50	TOMAS, a toroidal magnetised device for RF plasma production and plasma-wall interactions studies	T. Wauters, F. Louche, R. Ragona, S. Moiller, F. Durodie, F. Fasseur, A. Lyssoivan, A. Messiaen, J. Ongena, P. Petersson, M. Rubel, S. Brezinsek, C. Linsmeier and M. Van Schoor
51	Traveling wave ICRF antenna(s) for fusion devices	R. Ragona and A. Messiaen