

## MCSS20 Conference Program, 8-9 October 2020

Day 1: Thursday, 8 October 2020				
12:00-12:15	Conference opening Prof. Andrzej Dziech, AGH UST			
12:15-13:00	European Cyber Situation Awareness Prof. Wim Mees - Head of the Cyberdefense Research Unit, Royal Military Academy, Belgium (Remote Speaker)			
13:00-13:45	GSM communication - secure or not secure? Marcin Golizda - Former Head of Cybercrime Department of the Polish National Police HQ, Poland (Remote Speaker)			
13:45-14:00	Summary of the opening session Prof. Andrzej Czyżewski, Gdansk UoT			
14:00	Lunch			
15:30	Departure to Wieliczka Salt Mine			
20:00	Dinner at Chimera restaurant			
Day 2: Friday, 9 October 2020				
8:30	Departure from Krakow to Kielce – Meeting point nearby entrance to D-6 AGH University of Science and Technology			
TWO PARALLEL SESSIONS				
11:00-16:00	Cybersecurity, threat detection and data protection		Multimedia Tools and Services	
11:00-11:20	Multi-Sector Assessment Framework - A New Approach to Analyse Cyber security Challenges and Opportunities	<i>Salvatore Marco Pappalardo, Marcin Niemiec, Maya Bozhilova, Nikolai Stoianov, Andrzej Dziech, Burkhard Stiller</i>	Evaluating calibration and robustness of pedestrian detectors	<i>Sebastian Cygert, Andrzej Czyżewski</i>
11:20-11:40	New approach of solving congruent equation system	<i>Andrey Ivanov, Nikolai Stoianov</i>	A Smart Algorithm for CO2 Emissions reduction on realistic traffic scenarios exploiting VANET architecture	<i>Cesare Sottile, Nicola Cordeschi, Danilo Amendola</i>
11:40-12:00	A Machine Learning Approach to Dataset Imputation for Software Vulnerabilities	<i>Shahin Rostami, Agnieszka Kleszcz, Daniel Dimanov, Vasilis Katos</i>	A Resilient Distributed Measurement System for Smart Grid Application	<i>Giovanni Artale, Christof Brandauer, Giuseppe Caravello, Antonio Cataliotti, Valentina Cosentino, Dario Di Cara,</i>

				<i>Salvatore Guaiana, Nicola Panzavecchia, Stefano Salsano, Giovanni Tinè</i>
12:00-12:20	Towards the Design of a Cybersecurity Competence Network: Findings from the Analysis of Existing Network Organisations	<i>Todor Tagarev, B Davis</i>	Workflow Management System with Automatic Correction	<i>Wojciech Chmiel, Andrzej Dziech, Jan Derkacz, Stanisław Jędrusik, Piotr Kadluczka, Bogdan Laskowski, Zbigniew Mikrut, Dariusz Pałka, Piotr Rajchel, Iwona Skalna, Michał Turek</i>
12:20-12:40	Coffee Break Poster Session			
12:40-13:00	On the assessment of completeness and timeliness of actionable cyber threat intelligence artefacts	<i>Cagatay Yucel, Ioannis Chalkias, Dimitrios Mallis, Evangelos Karagiannis, Deniz Cetinkaya, Vasilis Katos</i>	A Hybrid Data Fusion Architecture for BINDI: a Wearable Solution to Com bat Gender-based Violence	<i>Esther Rituerto-González, Jose Angel Miranda Calero, Manuel Felipe Canabal, Jose M. Lanza-Gutierrez, Carmen Peláez-Moreno, Celia López-Ongil</i>
13:00-13:20	A novel watermark method for image protection based on Periodic Haar Piecewise-Linear Transform	<i>Andrzej Dziech, Piotr Bogacki, Jan Derkacz</i>	Dangerous Tool Detection for CCTV Systems	<i>Paweł Donath, Michał Grega, Piotr Guzik, Jakub Król, Andrzej Matiołański, Krzysztof Rusek</i>
13:20-13:40	Criticality assessment of critical information infrastructure objects: a category based methodology and Ukrainian experience	<i>Oleksandr Potii, Yurii Tsyplinskyi, Oleg Illiashenko, Vyacheslav Kharchenko</i>	Isolated word automatic speech recognition system	<i>Martina Slivová, Pavol Partila, Jaromír Továrek, Miroslav Voznak</i>
13:40-14:00	Ensemble malware classification	<i>Piotr Wyrwiński, Jakub Dutkiewicz, Czesław Jędrzejek</i>	Audio Feature Analysis for Precise Vocalic	<i>Szymon Zaporowski, Andrzej Czyzewski</i>

	using neural networks		Segments Classification in English	
14:00-14:20	Coffee Break Poster Session			
14:20-14:40	Impact of Bloom Filters on Security and Efficiency of SecaaS Services	<i>Maciej Mencner, Marcin Niemiec</i>	Toward court-admissible sensor system to fight domestic violence	<i>Miguel Ángel Campos Gaviño, David Larrabeiti</i>
14:40-15:00	Analysis of available microcontroller computing resources for the application of some cryptographic hash functions on different Internet of Things platforms	<i>Kristian Dokic, Tomislav Mesic, Mirko Cobović</i>	A VCA-based Approach to Enhance Learning Data Sets for Object Classification	<i>Remigiusz Baran, Andrzej Zeja</i>
15:00-15:20	Convolutional Neural Network Decoder for Enhanced Hadamard Error Correcting Code and its Application in Video Watermarking	<i>Jakob Wassermann, Michael Windisch</i>	Symbol Error Probability of Secondary User in Underlay Cognitive Radio Networks with Adaptive Transmit Power Constraint	<i>Hoang-Sy Nguyen, N.X.Huy Nguyen, Phu Ma, Jakub Jalowiczko, Miroslav Voznak</i>
15:20-15:40	Crowd density estimation based on face detection under significant occlusions and head pose variations	<i>Rouhollah Kian Ara, Andrzej Matiolański</i>	Survey on the State-Of-The-Art Methods for Objective Video Quality Assessment in Recognition Tasks	<i>Kamil Kawa, Mikolaj Leszczuk, Atanas Boev</i>
15:40-16:00	Evaluation of Improved Components of AMIS Project for Speech Recognition, Machine Translation and Video/Audio/Text Summarization	<i>Aritz Badiola, Amaia Méndez, Begonya Garcia-Zapirain, Michal Grega, Mikolaj Leszczuk, Kamel Smaili</i>	Three-dimensional operating room with unlimited perspective	<i>Klaudia Proniewska, Agnieszka Pregowska, Daniel Dolega-Dolegowski, Jakub Chmiel, Dariusz Dudek</i>

16:00- 16:15	Closing of the conference
16:15- 17:00	Visiting the 17th century palace in Kielce
17:00-	Dinner
19:15	Departure from Kielce to Krakow (arrival at 21:00 approx.)