

# **RISS 2018**

**Research & Innovation for Secure Societies**



**WORKSHOP**

**Friday, June 15<sup>th</sup>, 2018**

**08<sup>50</sup>-17<sup>45</sup>, Research Center CAMPUS, Conference Room 3**

**<http://campus.pub.ro/website/contact>**

08 <sup>50</sup> – 09 <sup>00</sup>	<b>Welcome</b>		
09 <sup>00</sup> – 10 <sup>00</sup>	<p><b>Keynote - The Data Protection Impact Assessment: Guidelines for Law Enforcement Data Processing</b></p> <p style="text-align: center;"><b>Laurens NAUDTS</b> KU Leuven Centre for IT&amp;IP Law-imec, Belgium</p> <p style="text-align: center;"><b>Chair</b></p> <p style="text-align: center;"><b>Corneliu BURILEANU</b>, Politehnica University of Bucharest, Romania</p>		
10 <sup>00</sup> – 10 <sup>30</sup>	<b>Coffee Break</b> Lobby		
10 <sup>30</sup> – 12 <sup>00</sup>	<p style="text-align: center;"><b>Oral session 1 “Vision and Speech”</b></p> <p style="text-align: center;"><b>Chair</b></p> <p style="text-align: center;"><b>Răzvan ROMAN</b>, Protection and Guard Service, Romania</p>		
10 <sup>30</sup>	<p style="text-align: center;"><b>Cătălin Alexandru MITREA</b> Politehnica University of Bucharest, Romania</p> <p style="text-align: center;"><b>Șerban CARATĂ</b> UTI Grup, Softrust Vision Analytics, Romania</p> <p style="text-align: center;"><b>Mihai-Gabriel CONSTANTIN</b> <b>Liviu-Daniel ȘTEFAN</b> Politehnica University of Bucharest, Romania</p> <p style="text-align: center;"><b>Roxana MIHĂESCU</b> <b>Marian GHENESCU</b> UTI Grup, Softrust Vision Analytics, Romania</p> <p style="text-align: center;"><b>Bogdan IONESCU</b> Politehnica University of Bucharest, Romania</p>	<i>Little-big Deep Neural Networks for Embedded Video Surveillance</i>	154
10 <sup>45</sup>	<p style="text-align: center;"><b>Georgiana MIHALCEA</b> Politehnica University of Bucharest, Romania</p> <p style="text-align: center;"><b>George SUCIU</b> <b>Cristian VASILESCU</b> Beia Consult International, Romania</p>	<i>Real-Time Autonomous System of Navigation using a Stereoscopic Camera</i>	162
11 <sup>00</sup>	<p style="text-align: center;"><b>Alexandru-Lucian GEORGESCU</b> <b>Horia CUCU</b> Politehnica University of Bucharest, Romania</p>	<i>GMM-UBM Modeling for Speaker Recognition on a Romanian Large Speech Corpora</i>	72
11 <sup>15</sup>	<p style="text-align: center;"><b>Roxana Elena MIHĂESCU</b> <b>Șerban Vasile CARATĂ</b> UTI Grup, Romania</p> <p style="text-align: center;"><b>Veta GHENESCU</b> <b>Marian Traian GHENESCU</b> Institute of Space Science, Romania</p> <p style="text-align: center;"><b>Mihai CHINDEA</b> <b>Cătălin MITREA</b> UTI Grup, Romania</p>	<i>Noise Removal based on Artificial Intelligence Synergy Methods for Surveillance Scenarios</i>	76
11 <sup>30</sup>	<p style="text-align: center;"><b>Iulian-Ionuț FELEA</b> <b>Laura FLOREA</b> <b>Corneliu FLOREA</b> <b>Constantin VERTAN</b> Politehnica University of Bucharest, Romania</p>	<i>Head Pose Estimation Using Deep Architectures</i>	79
11 <sup>45</sup>	<p style="text-align: center;"><b>Gheorghe POP</b> <b>Șerban MIHALACHE</b> <b>Dragoș BURILEANU</b> Politehnica University of Bucharest, Romania</p>	<i>Forensic Speaker Identification Using Speech Quality Data</i>	152

12 <sup>00</sup> – 13 <sup>00</sup>	<b>Lunch</b> Lobby		
13 <sup>00</sup> – 14 <sup>45</sup>	<b>Oral session 2 “Signal and Sensors”</b> <b>Chair</b> <b>Geert DE CUBBER</b> , Royal Military Academy, <i>Belgium</i>		
13 <sup>00</sup>	<b>Marian BURIC</b> Protection and Guard Service, Romania	<i>Mobile Broadband Public Safety Grade Network and Counter Remotely Piloted Aircraft Systems</i>	66
13 <sup>15</sup>	<b>Ionuț RĂDOI</b> <b>Florin RĂSTOCEANU</b> <b>Daniel Tiberius HRIȚCU</b> Military Equipment and Technologies Research Agency, <i>Romania</i>	<i>Data Transfer Methods in FPGA based Embedded Design for High Speed Data Processing Systems</i>	67
13 <sup>30</sup>	<b>Ștefan-Ciprian ARSENI</b> <b>Ionuț RĂDOI</b> <b>Sergiu-Beniamin MĂLUȚAN</b> <b>Marilena LAZĂR</b> <b>Ioana-Roxana DRAGOMIR</b> Military Equipment and Technologies Research Agency, <i>Romania</i>	<i>A Data Storage Model with User Controlled Cryptographic Mechanisms for Data Processing</i>	69
13 <sup>45</sup>	<b>Valentin-Alexandru VLĂDUȚĂ</b> <b>Ioana APOSTOL</b> <b>Ana-Maria GHIMEȘ</b> Military Technical Academy, <i>Romania</i>	<i>Data Collection Analysis: Field Experiments with Wireless Sensors and Unmanned Aerial Vehicles</i>	40
14 <sup>00</sup>	<b>Răzvan BĂRTUȘICĂ</b> <b>Mircea POPESCU</b> <b>Alexandru BOITAN</b> The Special Telecommunications Service, <i>Romania</i> <b>Simona HALUNGA</b> Politehnica University of Bucharest, <i>Romania</i>	<i>Considerations for Emission Security Risks from the Perspective of Signal Processing Techniques</i>	91
14 <sup>15</sup>	<b>Alexandru BOITAN</b> <b>Răzvan BĂRTUȘICĂ</b> The Special Telecommunications Service, <i>Romania</i> <b>Octavian FRATU</b> Politehnica University of Bucharest, <i>Romania</i> <b>Mircea POPESCU</b> <b>Valerică BĂNDAR</b> The Special Telecommunications Service, <i>Romania</i>	<i>Wireless Keyboards Communication Analysis - the Balance Between Convenience and Security</i>	93
14 <sup>30</sup>	<b>Dragoș DRĂGHICESCU</b> <b>Alexandru CARANICA</b> <b>Alexandru VULPE</b> <b>Octavian FRATU</b> Politehnica University of Bucharest, <i>Romania</i>	<i>Crypto-mining Application Fingerprinting Method</i>	124

14 <sup>45</sup> _ 15 <sup>15</sup>	<b>Coffee Break</b> Lobby	
15 <sup>15</sup> _ 16 <sup>45</sup>	<b>Oral session 3 “Research projects”</b> <b>Chair</b> <b>Marian BURIC</b> , Protection and Guard Service, <i>Romania</i>	
15 <sup>15</sup>	<b>Răzvan ROMAN</b> Protection and Guard Service, <i>Romania</i>	Project RedAlert <a href="http://redalertproject.eu/">http://redalertproject.eu/</a>
15 <sup>30</sup>	<b>Georgios STAVROPOULOS</b> Centre for Research & Technology Hellas, <i>Greece</i>	Project SMILE <a href="http://smile-h2020.eu/smile/">http://smile-h2020.eu/smile/</a>
15 <sup>45</sup>	<b>Mihai SIMIONESCU</b> Protection and Guard Service, <i>Romania</i>	Project ROBORDER <a href="http://roborder.eu/">http://roborder.eu/</a>
16 <sup>00</sup>	<b>Geert DE CUBBER</b> Royal Military Academy, <i>Belgium</i>	Project SafeShore <a href="http://safeshore.eu">http://safeshore.eu</a>
16 <sup>15</sup>	<b>Răzvan ROMAN</b> Protection and Guard Service, <i>Romania</i>	Project VICTORIA <a href="http://cordis.europa.eu/project/rcn/210226_en.html">http://cordis.europa.eu/project/rcn/210226_en.html</a>
16 <sup>30</sup>	<b>Cătălin MITREA</b> Politehnica University of Bucharest, <i>Romania</i>	Project SPOTTER <a href="http://www.campus.pub.ro/lab7/spotter/">http://www.campus.pub.ro/lab7/spotter/</a>
16 <sup>45</sup> _ 17 <sup>30</sup>	<b>Demo session, Research Center CAMPUS</b> <b>Chair</b> <b>Bogdan IONESCU</b> , Politehnica University of Bucharest, <i>Romania</i>	
17 <sup>30</sup> _ 17 <sup>45</sup>	<b>Closing remarks</b>	