Programme of the 11th International IEEE Conference Dependable Systems, Services and Technologies, DESSERT2020

Countries which represent	Time in countries
authors	regarding the time of Ukraine
Belarus	The same
Belgium	- 1
Bulgaria	The same
China	+ 4+
France	- 1
Germany	- 1
Ireland	- 2
Iraq	+ 3
Kazakhstan	+ 2+
Poland	- 1
Russia	The same +
Saudi Arabia	The same
Slovakia	- 1
United Kingdom	- 2
United States	- 7+

Time regarding the Kyiv

Timetable of the Conference

Time	May 14 th 2020,		Ma	y 15 th 20)20,			May	/ 16 th 20	20,	
Time	Thursday	Friday			Saturday						
		Plenary Session 3			Plenary Session 4						
9.30	Testing of compation	C	Dependable IoT, Edge and Embedded Systems			Digital Transformation, Cyber Defense and Critical Infrastructures					
11.00	Testing of connection			offee bre			Coffee break				
11.30	(Additional testing, <i>May 13th 14.00 – 16.00)</i>	RDS1	CCR1	AIM1	DIS1	DTE1	RDS4	CCR4	AIM4	DIS4	DTE4
13.00				Lunch					Lunch		
14.00	Plenary Session 1 Welcome. Dependable World and Safety Critical Systems	RDS2	CCR2	AIM2	DIS2	DTE2	Secu	ed Depe rity durii P Plena	ng and a andemic ary Sessi	y, Safety fter Cov c ion 5	rid19
	•				_		Av	vards an			ny
15.30	Coffee break		Со	ffee bre	ak			Coff	ee Bye-	Вуе	
16.00	Plenary Session 2 Resilient, Safe and Secure Engineering	RDS3	CCR3	AIM3	DIS3	DTE3					
17.45	Business in Travel: One from the Models of the Future	Abstract Art and Augmented Reality.									

Presentation timing: Invited speakers – 30 minutes + 5 minutes Q&A; Industrial and session talks – 15 minutes + 5 minutes Q&A. Each session includes additional 10 minutes for discussion.

Google Meet references

Plenary Sessions and RDS – Reliability, Dependability and Safety of Hardware, Software, Systems https://meet.google.com/ior-impj-xjz

CCR – Cryptography, Cybersecurity and Resilience of Systems, Networks, Clouds https://meet.google.com/kia-hdon-rrf

AIM – Artificial Intelligence, Control and Decision Making in Dependable Computing <u>https://meet.google.com/jim-kvhe-hfc</u>

DIS – Dependable Internet of Things, Smart Systems and Embedded Technologies <u>https://meet.google.com/iqo-iqvz-npd</u>

DTE – Digital Transformation, Economics, Manufacturing for Safe and Secure World https://meet.google.com/tzi-moxb-cgf

Plenary Sessions Schedule

Plenary sessions	Plenary talks
Plenary Session 1 Welcome. Dependable World and Safety Critical Systems <i>May 14th</i> <i>14.00 – 15.30</i> Moderator: Vyacheslav Kharchenko	 14.00 – 14.25 Invitation of the DESSERT Organizers (TBC). Professor Vyacheslav Kharchenko, National Aerospace University KhAI, Ukraine (General Chair of the Conference) Professor Anzhela Kuznetsova, Rector of Banking University, Ukraine Professor Mykola Nechyporuk, Rector of National Aerospace University KhAI, Ukraine Professor Anatoliy Gorbenko, Leeds Beckett University, United Kingdom Dr Mona Ghassemian, IEEE United Kingdom and Ireland Section, United Kingdom Professor Felix Yanovsky, IEEE Ukraine Section, Ukraine Professor Jüri Vain, Tallinn University of Technology, Estonia Oleksandre Yurchak, General Director of Association of Industrial Automation of Ukraine 14.25 – 14.35 Professor Vyacheslav Kharchenko, National Aerospace University KhAI, and Professor Yuriy Kondratenko, Petro Mohyla Black Sea National University, Ukraine Trends of the DESSERT 14.35 – 15.10 Professor Andrzej Rucinski, New-Hampshire University, USA. Global Trusted Dependability as a Grand Challenge 15.10 – 15.30 Dr Anton Andrashov, RPC Radiy, Ukraine.
Plenary Session 2 Resilient, Safe and Secure Engineering May 14 th 16.00 – 17.30 Moderator: Yuriy Kondratenko	Licensing of FPGA-based Safety Platform for NPPs: Challenges and Solutions 16.00 – 16.35 Professor Mike Hinchey , Lero – the Irish Software Research Centre, Ireland. Building Resilient Space Exploration Missions 16.35 – 17.10 Dr Peter Popov , City, University of London, United Kingdom. <i>Co-engineering for Safety and Security: The AQUAS project perspective</i> 17.10 – 17.30 Leonid Khatskevych , 482.solutions, Ukraine. Blockchain as a digital implementation of Ronald Coase's transaction cost theory
Plenary Session 3 Dependable IoT, Edge and Embedded Systems May 15 th 09.30 – 11.00	09.30 – 10.05 Professor Axel Sikora , Offenburg University of Applied Sciences, Germany <i>Network Security Strategies and Standards for the Industrial Internet of Things</i> 10.05 – 10.40 Yannick Fourastier , CodEUrope SAS, France. <i>Safety of autonomous intelligent systems: from cognitive techniques</i> <i>dependability to assurance level of decision self-making</i>

Moderator:	10.40 - 11.00
Oleg Illiashenko	Dr Oleksandr Karpin, Infineon Technologies, Ukraine.
	Challenges of Capacitive Sensing for Automotive
	chanenges of capacitive sensing for Automotive
Plenary Session 4	09.30 – 10.05
Digital Transformation,	Dr Zlatogor Minchev, Institute of ICT, Bulgarian Academy of Sciences, Bulgaria
Cyber Defense and	Digital Society Future Transformation Perspectives in the Informational Age
Critical Infrastructures	
	10.05 – 10.40
May 16 th	Col. Dr Nikolai Stoianov, Bulgarian Defence Institute, Bulgaria and
09.30 - 11.00	Matteo Merialdo, RHEA Group, Brussel, Belgium.
	Strengthening Cyber Defence in Europe through efficient multi-sector and multi-
Moderator:	domain collaboration, based on a network of centres of competences
Anatoliy Gorbenko	
(TBC)	10.40 - 11.00
	Professor Oleksandr Potii, Institute of Information Technology, Ukraine.
	Critical Infrastructure Security Assessment: The Standards and Techniques
	Moderators:
	Professor Andrzej Rucinski, New-Hampshire University, USA
Round Table	Professor Vyacheslav Kharchenko, National Aerospace University KhAI,
Trusted Dependability,	Ukraine
Safety and Security in	Professor Todor Tagarev, Institute of ICT, Bulgarian Academy of Sciences,
Covid19 Time May 16 th	Bulgaria
14.00 – 15.00	Dr Thaddeus Paul Kochanski, Sensors Signals Systems, Lexington, MA USA Professor Inna Skarga-Bandurova, East-Ukrainian Volodymyr Dahl University,
14.00 - 15.00	Ukraine
	ONDITE
Plenary Session 5	
Closing the Conference	
May 16 th	
15.00 - 15.30	
	Awards and Close Ceremony
Moderators:	
Vyacheslav Kharchenko,	
Yuriy Kondratenko	

Section Sessions Schedule

Sections	Sessions	Session papers
RDS – Reliability, Dependability and Safety of Hardware, Software, Systems Moderators (TBC): Juri Vain, Herman Fesenko, Oleg Odarushchenko, Ievgen Babeshko	RDS-1 Dependability of Clouds, SCADA, Databases May 15 th 11.30 – 13.00	 91 Anatoliy Gorbenko (United Kingdom), Andrii Karpenko, Olga Tarasyuk (Ukraine) Analysis of Trade-offs in Fault-Tolerant Distributed Computing and Replicated Databases 35 Oleg Bisikalo, Viacheslav Kovtun, Oksana Kovtun, Volodimir Romanenko (Ukraine) Research of safety and survivability models of the information system for critical use 61 Oleg Ivanchenko, Yuriy Ponochovniy, Vyacheslav Kharchenko, Borys Moroz, Evgene Brezhnev, Leonid Kabak (Ukraine) Dependability Assessment for SCADA System Considering Usage of Cloud Resources 56 Viktoriia Merlak, Heorgii Kuchuk (Ukraine) Resource allocation for hierarchical widget system
	RDS-2 Performance, Reliability and Safety of Networks and UAV Systems May 15 th 14.00 – 15.30	 19 Oleksandr Lemeshko, Oleksandra Yeremenko, Maryna Yevdokymenko, Batoul Sleiman (Ukraine), Pavel Segec, Jozef Papan (Slovakia) Advanced Performance-Based Fast Re-Routing Model with Path Protection 22 Lev Raskin, Oksana Sira, Yurii Parfeniuk (Ukraine) Reliability assessment of large systems that fail as a result of damage accumulation 80 Herman Fesenko, Ihor Kliushnikov, Vyacheslav Kharchenko, Serhii Rudakov, Elena Odarushchenko (Ukraine) Routing an Unmanned Aerial Vehicle During NPP Monitoring in the Presence of an Automatic Battery Replacement Aerial System 88 Vladimir Sklyar, Vyacheslav Kharchenko (Ukraine) Structured Argumentation for Assurance Case of Monitoring System based on UAVs
	RDS-3 Development of Fault-Tolerant Embedded Systems May 15 th 16.00 – 17.30	 18 Anton Kamenskih, Yuri Stepchenkov, Yuri Diachenko, Yuri Rogdestvenski, Denis Diachenko (Russian Federation) <i>Improvement of the Quasi Delay-Insensitive Pipeline</i> <i>Noise Immunity</i> 33 Sergey Tyurin (Russian Federation) <i>Reversible Majority Voter Based on Fredkin Gates</i> 43 Oleksandr Drozd, Vitaliy Romankevich, Mykola Kuznietsov, Myroslav Drozd, Oleksandr Martynyuk (Ukraine) <i>Using Natural Version Redundancy of FPGA</i> <i>Projects in Area of Critical Applications</i> 103 Vadym Puydenko, Vyacheslav Kharchenko (Ukraine) <i>The Minimization of Hardware for Implementation of</i> <i>Pseudo-LRU Algorithm for Cache Memory</i>

Sections	Sessions	Session papers
CCR – Cryptography, Cybersecurity and Resilience of Systems, Networks, Clouds Moderators (TBC): Nikos Bardis, Oleg Illiashenko, Aleksandr Kuznetsov, Roman Oliynykov	Sessions RDS-4 Verification and Deployment of Critical Software and FPGA Systems May 16 th 11.30 – 13.00 CCR-1 Models and Methods for Cyber Attacks Detection and Assessment May 15 th 11.30 – 13.00	Session papers102Oleksandr Gordieiev, Daria Gordieieva, AndriiTryfonov, Vladyslav Dokukin, Elena Odarushchenko(Ukraine)Method and tool for support of software requirementsprofile quality assessment7474Oleg Odarushchenko, Oleksiy Striuk, ElenaOdarushchenko, Kostiantyn Leontiiev (Ukraine)Software Fault Insertion Testing for SIL Certification ofSafety PLC-Based System8787Maryna Miroshnyk, Oleksandr Shkil, Elvira Kulak,Dariia Rakhlis, Inna Filipenko, Anatolii Miroshnyk(Ukraine)Verification of FPGA control systems by analyzing thecorrectness of state diagrams105Kostiantyn Leontiiev, levgen Babeshko, VyacheslavKharchenko (Ukraine)Assumption Modes and Effect Analysis of XMECA:Expert based safety assessment6565Vyacheslav Kharchenko, Yuriy Ponochovniy, Al-KhafajiAhmed Waleed, Oleg Ivanchenko, Dmytro Uzun, LarysaDegtyareva (Ukraine)Availability model of two-zone physical security systemconsidering cyber attacks and software update6767Sergii Lysenko, Kira Bobrovnikova, Oleg Savenko,Roman Shchuka (Ukraine)A Cyberattacks Detection Technique Based onEvolutionary Algorithms7273737474747474757677777878<
	CCR-2 Cyber Security of Mobile Systems, IoT and Services May 15 th 14.00 – 15.30	 24 Dmytro Progonov, Veronika Prokhorchuk, Andriy Oliynyk (Ukraine) Evaluation System for User Authentication Methods on Mobile Devices 32 Dmytro Likhomanov, Vladyslav Poliukh (Ukraine) Predicting malicious hosts by blacklisted IPv4 address density estimation 25 Anastasiia Poltorak, Nataliia Sirenko, Igor Atamanyuk, Yuriy Volosyuk, Olha Melnyk, Polina Fenenko (Ukraine) Paradigm Changes that Strengthen the Financial Security of the State through FINTECH Development 96 Victoriia Turkina, Dmytro Ihnatiev (Ukraine) Approach to Sustainable Trust and Reputation Evaluation in Distributed Mobile Networks of the Internet of Things

Sections	Sessions	Session papers
	CCR-3 Residual Class Systems, Cryptography and Steganography May 15 th 16.00 – 17.30	 48 Victor Krasnobayev, Alexandr Kuznetsov, Irina Lokotkova, Anastasiia Kiian, Tetiana Kuznetsova (Ukraine) <i>Techniques for Raising the Remainder to a Power in the</i> <i>Residual Class System</i> 49 Victor Krasnobayev, Alexandr Kuznetsov, Victoria Popenko, Anna Kononchenko, Tetiana Kuznetsova (Ukraine) <i>Determination of Positional Characteristics of Numbers</i> <i>in the Residual Class System</i> 92 Mariia Rodinko, Roman Oliynykov (Ukraine) <i>The Method of Searching for Differential Trails of ARX-</i> <i>based block cipher Cypress</i> 101 Alexandr Kuznetsov, Alexey Smirnov, Alexander Onikiychuk, Tymur Makushenko, Olha Anisimova, Anna Arischenko (Ukraine) <i>Adaptive Pseudo-Random Sequence Generation for</i> <i>Spread Spectrum Image Steganography</i>
	CCR-4 Quantum Computing and Post-Quantum Cryptography May 16 th 11.30 – 13.00	 44 Alexandr Kuznetsov, Anastasiia Kiian, Vitalina Babenko, Iryna Perevozova, Iryna Chepurko, Oleksii Smirnov (Ukraine) New Approach to the Implementation of Post-Quantum Digital Signature Scheme 45 Alexandr Kuznetsov, Anastasiia Kiian, Oleksii Smirnov, Alla Cherep (Ukraine), Meruert Kanabekova (Kazakhstan), Iryna Chepurko (Ukraine) Testing of Code-Based Pseudorandom Number Generators for Post-Quantum Application 83 Valeriy Hlukhov (Ukraine) FPGA Based Digital Quantum Computer Verification 108 Sergiy Gnatyuk, Tetyana Okhrimenko, Olena Azarenko, Andriy Fesenko (Ukraine), Rat Berdibayev (Kazakhstan) Experimental Study of Secure PRNG for Q-trits Quantum Cryptography Protocols
AIM – Artificial Intelligence, Mobile Robotics and Decision Making in Dependable Systems Moderators (TBC): Yuriy Kondratenko, Igor Atamanyuk, Ievgen Sidenko, Olga Morozova	AIM-1 Artificial Intelligence and Neuro Models May 15 th 11.30 – 13.00	 51 Anatoly Shevchenko, Alexander Sosnitsky (Ukraine) Universal meta-definition of Intelligence 31 Olga Morozova, Vyacheslav Kharchenko, Oleg Illiashenko, Sergii Sokolov (Ukraine) Combination of Digital Twin and Artificial Intelligence in Manufacturing Using Industrial IoT 59 Oleh Pihnastyi, Georgii Kozhevnikov, Tetiana Bondarenko (Ukraine) An Analytical Method for Generating a Data Set for a Neural Model of a Conveyor Line 76 Roman Leizerovych, Galyna Kondratenko, levgen Sidenko, Yuriy Kondratenko (Ukraine) IoT-complex for Monitoring and Analysis of Motor Highway Condition Using Artificial Neural Networks

Sections	Sessions	Session papers
	AIM-2 Machine Learning and Cognitive Modeling May 15 th 14.00 – 15.30	 52 Olena Protsenko, Mykyta Myronenko, Taras Savchenko, Olesandr Prikhodchenko (Ukraine) Informational and extreme machine learning for on- board recognition system of ground objects 112 Bo Jiang, Pengfei Liu, Jie Xu (China) A Deep Learning Approach to Locate Buggy Files 17 Valeriy Mygal, Galyna Mygal (Ukraine) The viability of dynamic systems in difficult conditions: cognitive aspects 89 Petr Makarenko, Mikola Mogilat, Anton Neklesa, Olena Ponochovna, Yulia Makarenko (Ukraine) Cognitive modeling of the consumer market: sensitivity and scenario analysis
	AIM-3 Mobile Robotics, UAV and Advanced Control Systems May 15 th 16.00 – 17.30	 Maryna Derkach, Danylo Matiuk, Inna Skarga- Bandurova (Ukraine) Obstacle Avoidance Algorithm for Small Autonomous Mobile Robot Equipped with Ultrasonic Sensors 13 Oleksandr Tymochko, Andrii Trystan, Andrii Berezhnyi, Olga Matiushchenko (Ukraine), Oleksandr Timochko (Germany) Method of Automated Flight Route Planning for Unmanned Aerial Vehicles to Search for Stationary Objects 81 Kostiantyn Dergachov, Serhii Bahinskii, Iryna Piavka (Ukraine) The algorithm of UAV automatic landing system using vision systems 57 Oleh Pihnastyi, Georgii Kozhevnikov, Valery Khodusov (Ukraine) Conveyor Model with Input and Output Accumulating Bunker
	AIM-4 Decision Support in Dependable Systems May 16 th 11.30 – 13.00	 2 Igor Atamanyuk, Vyacheslav Shebanin, Valerii Havrysh, Vadim Lykhach, Sergey Kramarenko (Ukraine) <i>Identification of the Optimal Parameters for Forecasting</i> <i>the State of Technical Objects Based on the Canonical</i> <i>Random Sequence Decomposition</i> 39 Vitaliy Tsyganok, Sergii Kadenko, Oleh Andriichuk (Ukraine) <i>Hybrid Decision Support Methodology Based on</i> <i>Objective and Expert Data</i> 79 Yaroslav Khortiuk, Galyna Kondratenko, Ievgen Sidenko, Yuriy Kondratenko (Ukraine) <i>Increasing Reliability of Programming</i> <i>Interfaces Based On Fuzz Testing</i> 86 Olena Golembovska, Vyacheslav Kharchenko, Igor Shostak, Mariia Danova, Olena Feoktystova (Ukraine) <i>Assessing the Perception of Abstract Paintings with</i> <i>Elements of Augmented Reality</i>

Sections	Sessions	Session papers
DIS – Dependable Internet of Things, Smart Systems and Embedded Technologies Moderators (TBC): Vladimir Lukin, Nataliia Kussul, Viktor Makarichev, Anatoly Sachenko	DIS-1 Image Processing, Quality and Privacy Assurance May 15 th 11.30 – 13.00	 10 Maksim Pavlenko, Oleksandr Tymochko, Volodymyr Larin, Maksym Kolmykov, Serhii Khmelevskiy (Ukraine) Conceptual Basis of Cascading Differential Masking Technology 11 Mykhailo Babii, Andrii Dikhtiarov (Ukraine) Identification of a Person by Gait on the Basis of Wavelet Technology 14 Viktor Makarichev, Vladimir Lukin, Iryna Brysina (Ukraine) Discrete Atomic Compression with Different Structures of Discrete Atomic Transform: Efficiency Comparison and Perspectives of Application to Digital Images Privacy Protection 20 Fangfang Li (China), Sergey Krivenko, Vladimir Lukin (Ukraine) A Two-step Procedure for Image Lossy Compression by ADCTC With a Desired Quality
	DIS-2 Internet of Things for Safety and e- Health May 15 th 14.00 – 15.30	 85 Igor Shostak, Mariia Danova, Olga Morozova, Tamara Kliuieva (Ukraine) Using Internet of Things Technologies to Ensure Cargo Transportation Safety 97 Oksana Luchsheva, Ihor Turkin, Pavlo Luchshev (Ukraine) Navigation Assistive Application for the Visually Impaired People 115 Anatoliy Sachenko, Oleksandr Osolinnskyi (Ukraine), Maciej Dobrowolski (Poland), Pavlo Bykovyy, Volodymyr Kochan (Ukraine) Development of the Flexible Traffic Control System Using the LabView and ThingSpeak 113 Igor Zhukov, Nickolay Pechurin, Lyudmila Kondratova (Ukraine) IoT's Primary Information Load Estimation
	DIS-3 Data Analysis for Security and Availability May 15 th 16.00 – 17.30	 28 Iryna Svyd, Ivan Obod, Oleksandr Maltsev, Ganna Zavolodko (Ukraine) Fusion Method of Primary Surveillance Radar Data and IFF systems Data 29 Iryna Svyd, Ivan Obod, Oleksandr Maltsev, Artem Hlushchenko (Ukraine) Secondary Surveillance Radar Response Channel Information Security Improvement Method 66 Nataliia Kussul, Andrii Shelestov, Bohdan Yailymov, Hanna Yailymova, Mykola Lavreniuk, Leonid Shumilo, Yuliia Bilokonska (Ukraine) Crop monitoring technology based on time series of satellite imagery 54 Yaroslav Klyatchenko, Lev Yasenko, Oksana Tarasenko-Klyatchenko (Ukraine) Image noise reduction by denoising autoencoder

Sections	Sessions	Session papers
DTE – Digital	DIS-4 Advanced Methods for Dependable Systems Development and Assessment May 16 th 11.30 – 13.00 DTE-1	 26 Valerii Zhabin, Valentina Zhabina (Ukraine) Methods of On-Line Computation Acceleration in Systems with Direct Connection between Units 27 Sergii Saukh (Ukraine) Regularization Method for the Clarke's Generalized Jacobian to Ensure the Formation of Nonsingular Systems for Inexact Newton Methods 58 Vadym Shkarupylo, Oleksandr Chemerys, Valentyna Dusheba, Ravil Kudermetov, Andrii Oliinyk (Ukraine) On Hoare Triples Applicability to Dependable System Specification Synthesis 50 Artem Perepelitsyn, Inna Zarizenko, Vitaliy Kulanov (Ukraine) FPGA as a Service Solutions Development Strategy 1 Halyna Chmeruk, Tetiana Bludova (Ukraine)
Transformation, Economics, Manufacturing for Safe and Secure World Moderators: Tetiana Hovorushchenko, Volodymyr Kazymyr, Anastasiia Strielkina, Todor Tagarev	Digital Economy, Information Systems and Industry 4.0 May 15 th 11.30 – 13.00	 Probabilistic Approach for Evaluation of Organization of Enterprise Reengineering 71 Tamara Lozinska, Oleksandr Dorofyeyev, Yurij Ponochovnij, Tetiana Vlasenko (Ukraine) Linear Regression Model for Substantiation of Sustainable State Policy in a Digital Economy 98 Olena Kopishynska, Yrii Utkin, Oleksandr Galych, Mykola Marenych, Ihor Sliusar (Ukraine) Main Aspects of the Creation of Managing Information System at the Implementation of Precise Farming 64 Svitlana Gutsu, Tetiana Katkova, Andrii Babych, Maryna Mkrtchyan, Anastasiia Strielkina (Ukraine) Social and Legal Aspects of the Transition to Industry 4.0
	DTE-2 Modelling, Ranking Analysis and VR Technology May 15 th 14.00 – 15.30	 ⁵ Tetiana Hovorushchenko, Alla Herts, Yelyzaveta Hnatchuk (Ukraine) Modelling the Decision Making Process on Legal Conducting the Surrogate Motherhood 110 Viktoriya Saravas, Evgenii Pahalchuk, Andrii Molchan, Yuriy Kampov (Ukraine) The Development of Educational Application with Virtual Reality Placing Objects System Using Snap Zone Technology 82 Iryna Yakymenko, Volodymyr Kazymyr, Svitlana Lytvyn (Ukraine) Webometrics ranking analysis and possible ways to improve the position of the university 23 Artyom Shamyna, Aleksey Ardyako, Alexandr Labokha (Belarus) Modeling the distribution of radionuclides in the environment as a result of radiation accidents
	DTE-3 Networked Organisations for Security and	16 Todor Tagarev, Yantsislav Yanakiev (Bulgaria) Business Models of Collaborative Networked Organisations: Implications for Cybersecurity Collaboration

Sections	Sessions	Session papers
	IT-Dependent Information	21 Todor Tagarev (Bulgaria) Governance of Collaborative Networked Organisations:
	Society	Stakeholder Requirements
		77 Kateryna Isirova, Oleksandr Potii (Ukraine)
	May 15 th 16.00 – 17.30	Development Principles for Electronic Voting System Using Distributed Ledger Technology
	10.00 - 17.30	69 Lyudmila Vasylieva, Olga Procenko, Svitlana Chmykhun (Ukraine)
		<i>Problems and Solutions for an IT-Dependent Information Society: Essence, Development and Prospects</i>
	DTE-4	4 Sergiy Kryvyi, Olena Grinenko, Volodymyr Opanasenko
	Software,	(Ukraine)
	Management	Logical Approach to the Research of Properties of
	Systems and	Software Engineering Ecosystem
	Ecosystems Safety and	8 Tetiana Hovorushchenko, Ivan Lopatto, Olga Pavlova (Ukraine)
	Security	Concept of Activity of Intelligent Agent of Verification of Considering the Subject Area Information in the Process
	May 16 th	of Software Systems Development
	11.30 - 13.00	99 Sergii Dotsenko, Herman Fesenko, Oleg Illiashenko, Vyacheslav Kharchenko, Valentin Moiseenko, Liudmyla Yermolenko (Ukraine)
		Integration of Security, Functional and Ecology Safety Management Systems: Concept and Industrial Case

Round Table Schedule

Time	Topics (TBC)
	Moderators: Prof Andrzej Rucinski, New-Hampshire University, USA Prof Vyacheslav Kharchenko, National Aerospace KhAI, Ukraine <i>Welcome and Introduction</i> Prof Todor Tagarev, Institute of ICT, Bulgarian Academy of Sciences, Bulgaria
Round Table Trusted Dependability, Safety and Security during and after Covid19 Pandemic	<i>Understanding and countering hybrid influence: What scientists can do to support policy-making?</i>
May 16 th 14.00 – 15.00	Dr Thaddeus Paul Kochanski, Sensors Signals Systems, Lexington, MA USA Issues of Global Trust and Dependability of Technology in the Pandemic Age
	Prof Inna Skarga-Bandurova, East-Ukrainian Volodymyr Dahl University, Ukraine The pitfalls of big data and AI in the era of big disease: Art of Survive

Social Events Schedule

Time	Topics
Social Event 1	Vladimir Sklyar (Ukraine)
May 14 th 17.45 – 18.30	Business in Travel: One from the Models of the Future Essay and online travel to India, Vietnam, Cambodia, Bali
	Olena Golembovska (Ukraine)
Social Event 2 May 15 th 17.45 – 18.30	Abstract Art and Augmented Reality Online Exhibition and Discussion
	(Mobile application Artivive should be uploaded)