

# NATO SPS Advance Training Course

## “TOWARD EFFECTIVE CYBER DEFENSE IN ACCORDANCE WITH THE RULES OF LAW”



Ohrid, North Macedonia,  
3-8 November 2019

### Organizing Committee:

Dr. Dunja Duic Assistant Professor, Faculty of Law, J. J. Strossmayer University of Osijek, Croatia

Dr. Kristina Misheva, Assistant Professor, Faculty of Law, Goce Delcev University in Stip, Republic of North Macedonia

Dr. Dijana Gupta, Assistant Professor, Atlantic Council of Bosnia & Herzegovina

Dr. Metodi Hadji Janev, Associate Professor, Military Academy “General Mihailo Apostolski-Skopje” - associated member of the University “Goce Delcev-Shtip”

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## **At a glance**

**Information and communication technologies (ICT) play an important role in the South Eastern European (SEE) societies. Cyberspace is a widespread, interconnected digital technology domain and it is experienced in these societies' communications (email, cell phones, texting), transportation (traffic control signals, car engine systems, airplane navigation), state administration (birth/death records, Social Security, licensing, tax records), finance (bank accounts, loans, electronic paychecks), medicine (equipment, medical records), and education (virtual classrooms, online report cards, research). During the last decade, the digital revolution in the SEE countries' has given more people access to communication, education, and news than ever before.**

**In general, SEE countries have paid appropriate attention in developing cyber defense capacities. However, most of the events and efforts in these areas have focused on raising awareness about the general necessity of building cyber defense capacities, such as operational and technical aspects. Legal aspects of cyber defense have marginally been considered. Given that the rules of law is an important element in NATO's mission, raising the awareness and introducing best practices in cyber defense in accordance with the Rule of law is important for the region of Southeast Europe. Accordingly, the NATO SPS ATC “Toward effective cyber defense in accordance with the rules of law” covers the peacetime legal aspects governing cyber defense and international law of armed conflict applicable to cyber defense.**

**The Co-directors'**

**Dr. Dunja Duic**

**Dr. Kristina Misheva**

**Dr. Dijana Gupta**

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Dr. **Dunja Duić** works as Assistant Professor at the Faculty of law Osijek and she is Head of the Department of the Constitutional and European law. Professional orientation towards EU law derives from Postgraduate Mater of Advance studies in European and Comparative Law at Faculty of Law Gent, Belgium, LLM and Post-graduate Study of European Law at the Faculty of Law, University of Zagreb, Croatia, PHD. Main professional interests include EU Law, External relations of EU, EU institutions and comparative politics, migration and human rights. She is teaching EU law at the Integrated Undergraduate and Graduate University Studies Postgraduate doctoral studies and at the Department of cultural studies. She has participated in five international and scientific projects In 2014, she was Erasmus visiting professor at Johannes Kepler University in Linz and University of Zagagoza and she has been visiting scholar at University of Insubria in 2017. She has participated in numerous scientific conferences and published journal and conference papers, book chapters. She is a book editor and series editor of EU and comparative law issues and challenges series.



Dr. **Kristina Misheva** is an Assistant Professor at the Business Law department, Faculty of Law Goce Delchev University in Stip, Republic of North Macedonia. Present, Head of the Business Law Department. Graduated at the Faculty of Law “Iustinianus Primus” in Skopje, where she earned her LLM in Business Law and PhD in Law. Dr. Misheva has successfully passed the Judicial exam by the Ministry of Justice, Republic of Macedonia. She teaches and conducts research in the area of Company Law, Finance Law, Regulation on Financial Institutions and Markets, Banking Law and, most recently, in the area of Health Law. Dr. Misheva is a member of the Programme Committee for various international scientific conferences and she has been member of the Organizational Committee at the annual faculty scientific conferences. She is an author/co-author of numerous articles presented at international conferences and published in conference proceedings and international scientific journals. Specifically, she is the author of the monograph, “Investment Funds - Legal Aspects,” co-author of book section, “*The Application of International Law in Macedonia,*” and co-author of the research book entitled “*The Practical Training of the Students at the Law Faculties in the Republic of Macedonia.*” Dr. Misheva has participated in numerous domestic and international scientific conferences.

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Brigadier General (BG) **Metodi Hadji-Janev**, Ph.D. is an associate professor at the Military Academy General Mihailo Apostolski"-Skopje, a unit of University "Goce Delcev" in Stip, Macedonia and an adjunct faculty member at Ira A. Fulton School of Engineering, Arizona State University, ASU, U.S.A. He is a graduate of the Macedonian Military Academy and the United States Air Command and Staff College. He also holds MA and Ph.D. degrees in Law from the Law Faculty "Justinian-I" in Skopje, Macedonia. In 2018 BG Hadji Janev was awarded the Legion of Merit Award by the US Defense Secretary, James

Mattis, for exceptionally meritorious conduct in the performance of outstanding services and achievements as a Macedonian Defense attaché in Washington DC, U.S.A.

BG Hadji-Janev's current scholarship focuses on legal aspects of countering asymmetric, cyber, and hybrid-based threats, with emphasis on critical information infrastructure and critical infrastructure protection; on legal and strategic aspects of use of force in countering terrorism, violent extremism and organized crime threats, and on development of legislation and strategic documents to effectively counter cyber and hybrid threat vectors. He was actively engaged in collaboration with and NATO Center of Excellence Defense Against Terrorism in Ankara, Turkey where he acted as a co-director in four NATO SPS funded projects (2011-2014) and academic course advisor on the course specifically designed for EUROCORPS in Strasburg (2015). In addition, he acted as a NATO Partner country co-director in 3 NATO SPS funded projects. His latest book was ranked among the top 10 best books for university colleges in the USA (see more at <http://www.sanfoundry.com/best-reference-books-cybercrime-digital-forensic-cyber-forensics/>) BG Hadji-Janev is a vice president of the Euro-Atlantic Council of Macedonia and is actively involved in stimulating young researchers to work on different scientific and professional security projects. He is also an official disseminator at the Macedonian part of the International Red Cross.



Prof.dr.sc. **Dijana Gupta** is born 25. 04. 1964. Crkvice – Zenica. She holds PhD in Humanities science from the University Đžemal Bijedić in Mostar, BiH. She is president at the Atlantic NATO Council Bosnia and Hercegovina, member of International Federation of Journalist, member of Bosne and Hercegovine NATO MEMORIAL TRETHUN – France and several other organizations. Dr. Gupta speaks English and French. She has participated at many international, regional and domestic conferences.

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### Speakers:



**Alan Brill** is a senior managing director and the founder of the Cyber Risk Practice of Kroll (a division of Duff & Phelps) based in Secaucus, New Jersey. His practice focuses on providing expert witness services in connection with complex domestic and international litigation. He also advises companies and boards on issues relating to cybersecurity and risk management. Prior to joining Kroll, he served as Director at the New York City Department of Investigation, where he was the city’s senior cybersecurity professional. He also spent several years with Ernst & Young and the Chase Manhattan Bank. He served as a Major in the US Army and worked on the Apollo moon landing program at NASA Houston. He is the author/co-author of a dozen books, over 100 articles and is a frequent speaker at international conferences. He provides training at NATO events, and serves as an Adjunct Professor at Texas A&M University School of Law in the LLM/M.Jur program in risk management.



**Donald D. Dudenhoeffer** is a Cyber Security Research Engineer at the Austrian Institute for Technology (AIT) Centre for Digital Safety & Security and a cyber security consultant for the cyber security firm Darkmatter in the UAE. His areas of expertise are cybersecurity of operational technologies, critical infrastructure protection, and the impact of technology on security. Previous to this, Mr Dudenhoeffer was a Senior Information Technology Officer for the Division of Nuclear Security (NSNS) at the International Atomic Energy Agency (IAEA). He led NSNS’s Computer Security programme providing Member States with guidance and support in developing their security programmes for their nuclear facilities and associated operations. Mr Dudenhoeffer is a retired Commander in the US Navy Reserves and former submarine officer. Mr Dudenhoeffer holds a Master’s Degree in Operations Research from the US Naval Postgraduate School and Bachelor’s degrees in both Computer Science and Mathematics.

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**Ritesh Kotak** started an eight-year career within policing in Canada focusing on technology and cybercrime. He led the creation of the Cyber-Crimes unit and the Research and Innovation portfolio focusing on digital transformation. Ritesh then transitioned to the Private sector where he worked on global projects related to Cyber Security, Investigations and Next-Generation IoT applications for Smart Cities. Ritesh has completed an MBA from the University of Edinburgh and a BBA from the University of Toronto. In 2018, he was selected for the Emerging Leaders Program at Harvard University’s

Kennedy School of Government. Ritesh has presented around the world including the World Internet Conference in China, the training academy for the Jamaican Constabulary Force, Intersec in Dubai, the Major City Chiefs/FBI National Executive Institute Conference and several other events internationally. Ritesh has written several articles and frequently appears in media as a subject matter expert on tech and cyber related stories. Ritesh also sits on National E-Crimes Committee.

### **Igor Vuletić**



Born in 1982 in Osijek, Croatia. Graduated law at the Faculty of Law Osijek (Josip Juraj Strossmayer University of Osijek) in 2006. Defended PhD thesis at the Faculty of Law Zagreb (University of Zagreb, Croatia) in 2011. Works at the Department of Criminal Sciences, Faculty of Law Osijek since 2006, currently as an associate professor of substantive criminal law. Attended an international specialization course “*Human Trafficking for Commercial Sexual Exploitation*” at the International Institute of Higher Studies in Criminal Sciences (Siracusa, Italy). Awarded with Max Planck fellowship for study visit to Max Planck Institute for

Comparative and International Criminal Law in Freiburg, Germany (Feb 2011). He was guest researcher at the Institute of Criminology in Cambridge, UK (Mar 2013), Faculty of Law at Complutense University in Madrid (2015) and at the Beazley Institute of Health Law, Loyola University Chicago, USA (Aug 2019).

Vice- dean of Research Centre for European Criminal Law at the Shanghai Academy of Social Sciences, China (since 2016). Visiting professor at Anhui Normal University in Wuhu, China (since 2019). Member of an expert group appointed by the United Nations Office on Drugs and Crime for drafting a handbook for prevention of violence against women and children (2018). The main field of scientific interest is focused on substantive criminal law issues, especially on sexual offences and sexual violence against women and children, medical criminal law, and recently on the impact of autonomous intelligence on criminal law. Author of over 40 articles and co-author of one scientific book.

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**Ben Hiller** leads Cyber Defense Policy related to Partner Nations and International Organizations at NATO HQ’s Emerging Security Policy Division. In his role, Ben develops national cyber capabilities, advises on measures to uphold a rules based approach to cyberspace, and co-ordinates engagement with Partners on cyber defense issues. Before joining NATO, Ben was responsible for cyber policy at the Organization for Security and Co-operation in Europe (OSCE) guiding efforts in developing and operationalizing confidence building measures (CBMs) to reduce the risk of conflicts stemming from the use of cyber capabilities between States.



Major **Gretchen L. Davenport**, United States Army, is a training officer and teaching fellow at the International Institute of Humanitarian Law (IIHL). She teaches the legal aspects of International Humanitarian Law, human rights law, and advanced topics in the law of war. Major Davenport studied at John Brown University (Bachelor of Science - BS); Tulane University School of Law (Juris Doctor - JD); and The United States Army Judge Advocate General’s Legal Center and School (Master of Laws - LLM). Her previous duties include Operational Law Attorney, Legal Assistance Attorney, Rule of Law Attorney, Chief of Administrative Law, 25th Infantry Division; Defense Counsel; Senior Observer Controller/Trainer – Joint Readiness Training Center, Ft. Polk, LA; Chief of Administrative Law, 21st Theater Sustainment Command – Kaiserslautern, Germany; and most recently, Group Judge Advocate, 5th Special Forces Group (Airborne). Her previous operational assignments include Operational Law Attorney, 25th Infantry Division/Multinational Division -North, COB Speicher, Iraq (2006-2007); Rule of Law Officer-in-Charge, 25th Infantry Division/Multinational Division -North, COB Speicher, Iraq (2008-2009); and Command Judge Advocate, Combined Joint Special Operations Task Force – Syria (2017).

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Prof. Dr. **GÁL, István László**, PhD dr. habil is full professor at University of Pécs, Faculty of Political and Legal Sciences. There he is

Head of the Department of Criminal law. He is Chair of the Department of Economic and Legal Sciences, Hungarian Academy of Sciences, Regional Committee of Pécs, for the 2011-2013 academic cycle. He has participated as an external expert of framing the new Hungarian Criminal Code by the request of the Ministry of Justice. Secretary of the Hungarian Lawyer

Association's Criminal Law Department since 2010. He is President of the Criminal Law Research Institute's Professional Council in the University of Pécs, Faculty of Political and Legal Sciences since 2007 and member of the Public Body, Hungarian Academy of Sciences since 2006. He is visitor professor of Nanjing Audit University (Nanjing, China) since 2015 and was guest professor of East-China University of Political Sciences and Law in 2015-2018. He is Editor-in-Chief of the Journal of Eastern-European Criminal Law since 2014 and Director of the Research Center for European Criminal Law of the Shanghai Academy of Social Sciences, Shanghai, China since 2013. Beside academic carrier prof. Gal is a lawyer and certified economist.



**Tunjica Petrašević** is an Office of the State Administration for the Environmental Protection, Physical Planning and Construction at the Virovitica-Podravina County Ljudevita Patačića. He was Assistant at the Chair of Legal History and Assistant at the Chair of Constitutional Law and Political Sciences, Department of EU Law. Now he is Assistant Professor Faculty of Law in Osijek, Osijek (Croatia), teaching 3 compulsory courses: European Public Law / Eternal Market of the EU / Basics of European Law. He is also a Member of Croatian Institute for Local Government and Member of Croatian United Nations Association.

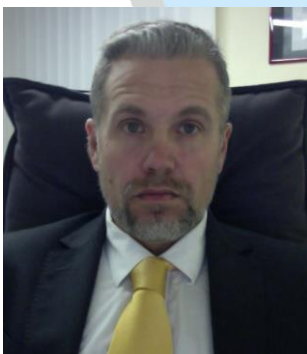


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**Stefan Soesanto** is a senior researcher in the cyber defense team at the Center for Security Studies at the ETH Zürich. His research focuses on cyber deterrence on the operational level, defending against information warfare, and arresting and extraditing cybercriminals. Prior to joining CSS, Stefan was the Cybersecurity & Defense Fellow at the European Council on Foreign Relations (ECFR) and a non-resident James A. Kelly Fellow at Pacific Forum CSIS. At ECFR, he designed and held cyber wargame exercises in cooperation with Microsoft, and organized a closed Cybersecurity and Defense conference in Odense together with the Center for War Studies at the University of Southern Denmark and the Office of the Danish Tech Ambassador. Stefan also served as a Research Assistant at RAND's Brussels office, co-authoring reports for the European Parliament Committee on Civil Liberties, Justice and Home Affairs (LIBE), the European Network Information Security Agency (ENISA), and Dutch Ministry of Security and Justice. Stefan holds an MA from Yonsei University (South Korea) with a focus on security policies, and international law, and a BA from the Ruhr-University Bochum (Germany) in political science and Japanese.



**Gian Luca Menti**  
Since I graduated in Administrative Law from the University of Genoa (Italy) and achieved my professional graduation as an Italian lawyer 15 years ago I have been practicing as a lawyer with qualification to higher jurisdictions in the field of public national and international law in front of the national courts and European Human Rights Court. During the years I focused my studies on issues related to intelligence and public control system in the sector of trade of weapons and dual use materials and technologies, to ICT security issues specially in the justice critical sector as well as to national and IHRL issues, also attending to NSO's Operational Law Course and E-NACT GDPR's course Thanks to professional titles and skills achieved I've been named officer with the grade of Captain from the 31st course of the selected reserve of the Italian Army and then called to serve as legal advisor at Nato Rapid Deployable Corps Italy HQ up to last September when I returned at the disposal of the Italian Staff Army.

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Dr. **Maša Kovič Dine** is an Assistant Professor at the Department of International Law at the Faculty of Law, University of Ljubljana. After graduating the Faculty of Law, University of Ljubljana, she continued her studies at the Faculty of law, University of Toronto, where she also worked a few years at the Research Group for G7/G8 countries. She defended her PhD thesis in International Environmental Law back at the Faculty of Law, University of Ljubljana, where she has been teaching a wide array of courses at both undergraduate and graduate level including Public International Law, Law of the Sea, International Humanitarian Law, International Criminal Law and International Environmental Law. She is also a mentor to student teams competing at international moot court competitions, a mentor of the International Environmental Law Clinic and the conference coordinator of a series of international interdisciplinary scientific conferences entitled Contemporary Challenges of International Environmental Law in Responsibility to Protect in Theory and Practice.



Dr. **Zeynep Ece Ünsal** (Ph. D) studied Business Administration as well as European Union and International Relations at Başkent University in Ankara/Turkey. She received her Ph.D on International Security and Terrorism from the Defence Sciences Institute at the Turkish Military Academy in Ankara. She is now working at Beykent University in Istanbul on Department of International Relations as Assistant Professor. Also she gave lectures at NATO Center of Excellence Defence against Terrorism (CEO-DAT) in Ankara. Her research areas are international security, terrorism, financing terrorism, international organizations and the European Union. She has many academic publications on this area.

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**Iskren Ivanov** (PhD, Sofia University) is a senior lecturer in Sofia University “St. Kliment Ohridski” and a visiting professor in the University of Texas at Austin. He was previously a visiting scholar in the U.S. Military Academy – West Point, U.S. Army War College, Yale University and the University of Delaware. Dr. Ivanov was also a guest – researcher in three other academic institutions: the Saltzman Institute of War and Peace Studies at Columbia University, New Sorbonne University Paris 3 and the Institute for Peace and Conflicts at the University of Granada. His research interests and publications are focused on: U.S. Foreign and Military Policy, Russian tools of hybrid warfare in Eastern Europe and Eurasian Duginism as a geopolitical concept. Iskren’s latest academic project is dedicated to Russian “soft” power on the Balkans.



COL. Dr. Sc. **Mitko BOGDANOSKI** is Professor and Vice Dean at the Military Academy “General Mihailo Apostolski” in Skopje, as well as visiting professor at several other universities. Moreover, he served for 10 years in the Electronic Warfare Center in MoD/Army (his last position was Deputy Commander). Dr. Sc. Bogdanoski received his B.Sc. degree in the area of Telecommunications (signals) from the Military Academy in Skopje, and Master and Doctoral degree from the Faculty of Electrical Engineering and Information Technologies (Department of Telecommunication), Ss Cyril and Methodius University, Skopje, in 2000, 2006 and 2012 respectively. His research interests include Cyber (Network and Systems) security, Hybrid threats, Electronic and Information operations, Cyber Crisis Management, ICT in Crisis Management, Disasters and Rescue, Social network analysis. He is an author/editor of 4 books, more than 15 book chapters published by several international publishers, and author of more than 80 papers published in reputable international journals/conference proceedings. Dr. Sc. Bogdanoski is Senior Member of IEEE Organization, and Member, honorary member of eSigmast association and member of several other societies. Dr. Sc. Bogdanoski is an editorial board member of several reputable international journals, as well as program committee member of several international conferences. Dr. Sc. Bogdanoski has organized/coordinated or participated as a keynote and invited lecturer/speaker on several advanced training courses and advance research workshops, most of them in the area of cyber security, hybrid threats and cyber crisis management. He is continuously engaged as a key expert or subject matter expert for EU, NATO and DCAF activities related to cyber security, hybrid threats, organized crime and corruption. In addition, he is an Expert Evaluator working for the European Commission Research Executive Agency. He is also very often engaged as a co-organizer of the activities organized by the NATO Centre of Excellence Defence against Terrorism in Ankara, Turkey, and RACVIAC Center for Security Cooperation in Croatia. He also managed/participated on several multiyear projects related to the area of his expertise. Dr. Bogdanoski is national POC with NATO for Cyber Defence as well as national deputy coordinator for hybrid threats working with NATO and EU regarding the hybrid and cyber threats.

