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Nota di contenuto	A novel and transportable active interrogation system for special nuclear material interdiction -- A Human Rights perspective on CBRN security. Derogations, limitations of rights and positive obligations in risk and crisis management -- The International Maritime Security Legislation and future perspectives for Italian ports -- The Erosion of the International Banon Chemical Weapons - the Khan Shaykhun Attack Case. Challenges and Perspectives for the Chemical Weapons Convention -- The impact of Climate Change on radiological emergencies in Italy: a case study in a Nuclear Medicine department -- Academic outreach in non-proliferation: the Dual Space System course -- Cranfield University Centre of Excellence in Counter-Terrorism --

The EU Response to the CBRN Terrorism Threat: A Critical Overview of the Current Policy and Legal Framework -- Best practices in Nuclear Medicine -- Chemical & Biological Weapons Conventions: Orienting To Emerging Challenges through a CooperativeApproach -- Comparison of Classification Methods for Spectral Data of Laser-induced Fluorescence -- Variations in fluorescence spectra of a bacterial population during different growth phases -- Field based multiplex detection of biothreat agents -- Provisioning for Sensory Data using Enterprise Service Bus: A Middleware Epitome -- First measurement using COUNTERFOG device: Chemical Warfare Agent Scenario -- Arms Control Law as the Common Legal Framework for CBRN Security -- Crisis Managers Workload Assessment During A Simulated Crisis Situation -- Increasing Forensic Awareness of CBRNE Responders and CBRNE Awareness of Forensic Experts: a Pan-European Challenge -- Experimental real-time tracking and numerical simulation of hazardous dust dispersion in atmosphere -- On the reconstruction of a radiological incident and its possible implications for an R-type terror attack -- A Mobile Complex System for fast internal contamination monitoring in nuclear and radiological terrorism scenarios -- “One Single Official Voice or Multiple Voices?”Ensuring Regulatory Compliance in Communicating (CBRN) Emergency or Crises -- The Risk Management and the transfer to the insurance market -- Safety in the transport of hazardous substances in residential areas: cases of the release of T.I.C. (chlorine, propane and butane) at low temperatures -- Early-warning crisis management systems for CBRNe attacks in high threat infrastructures -- Explosion risks inside pharmaceutical, agro-alimentary and energetic industries as a consequence of critical dust conditions: a numerical model to prevent these accidents -- Game Theory as Decision Making Tool in Conventional and Non-Conventional Events -- 3D numerical simulation of a chlorine release in an urban area -- Multidisciplinary education in managing maxi-health emergencies in unconventional events Preliminary results from the International Security/Safety/Global Strategy and Medical Maxi-Emergency (ISSMMdelta) Master -- Experimental real-time tracking and numerical simulation of hazardous dust dispersion in atmosphere -- CBRN events and mass evacuation planning -- Community Awareness in Disaster and Emergency Settings: A Case Study of the United Arab Emirates -- Thymol and Bromothymol: two alleys in biological weapons defeat -- The Potentiality of Improvised Explosives Devices to Trigger Domino Effects -- Fast response CBRN high scale decontamination system: COUNTERFOG -- Eco-Friendly Air Decontamination of Biological Warfare Agents Using “Counterfog” System -- CBRN Innovation Lab: a platform for improving risk knowledge and warning of CBRN hazards in Abu Dhabi -- Application of economic analysis to the selection of security measures against environmental accidents in a chemical installation -- Economic Impact of Biological Incidents: a Literature Review -- The Increasing Risk of Space Debris Impact on Earth: Case Studies, Potential Damages, International Liability Framework and Management Systems -- IoT-based eHealth Towards Decision Support System for CBRNE Events -- Modeling and Optimization of the Health Emergency Services Regional Network (HES-RN) in Morocco: Study Case of HES-RN of Rabat region -- EU CBRN Centres of Excellence Effective Solutions to Reduce CBRNE risks -- A Facebook Page Created Soon After the Amatrice Earthquake Provides a Useful Communication Tool for DeafPeople, Their Relatives and Caregivers -- Image/data transmission systems of the Italian Fire and Rescue Service in emergency contexts. An overview of methods and technologies to support decision-making -- International Training

Curriculum for advisors in emergencies and CBRNe events management -- A framework for TTX specification andEvaluation -- FOG DYNAMICS -- Numerical analysis of natural outbreaks and intentional releases of emerging and reemerging pathogens: preliminary evidence -- Sampling and Analytical Biological Screening on Letters and Parcels by Italian Department of Firefighters Public Rescue and Civil Defense National Fire Corps. The Experience of C.B.R.N. Advanced Team of Venice for the Realization of Standard Procedures -- Definition of a model to perform and evaluate training activities on external emergency plans of the “Seveso III" Industries.

Sommario/riassunto

This book presents the proceedings of SICC 2017, a conference devoted to promoting the dissemination of the different methodologies, techniques, theories, strategies, technologies and best practices on the prevention and mitigation of CBRNE risks. As the first scientific international conference on safety & security issues in the CBRNE field, SICC 2017 attracted contributions resulting from fruitful inter-professional collaborations between university and military experts, specialized operators, decision makers and the industry. As such, these proceedings are primarily intended for academics and professionals from public, private and military entities. It is the first trans-disciplinary collection of scientific papers from the numerous fields related to CBRNE.