

5TH IFIP CONFERENCE ON INFORMATION TECHNOLOGY IN DISASTER RISK REDUCTION

ITDRR 2020

VARNA, BULGARIA
JULY 15 - 17TH, 2020

[HTTP://ITDRR.UNWE.BG/](http://ITDRR.UNWE.BG/)

The effects of disasters are very serious and the destruction caused may take a very long time to recover. Related damage is severe and it may cause relief expenses of billions of euros. With the increase of natural disasters that have occurred in the past years, it is expected their frequency will continue to increase in the coming years.

Due to disaster risk reductions multidisciplinary nature, people from various backgrounds, such as industry, diverse geographical and global settings, not-for-profit organization backgrounds, agriculture, marine life, welfare, risk management, safety engineering and social networking services will be included.

At present, at global and national levels, a wide range of multiple scientific and scientific-applied research activity in the area of disaster risk reduction concerning individual types of disasters is conducted. Modern information and communication technologies can facilitate significantly the decision-making processes from the point of view of disaster risk reduction.

The 5th IFIP Conference on Information Technology in Disaster Risk Reduction (ITDRR-2020) provides an international forum for researchers and practitioners to present their latest R&D findings and innovations. The conference is especially focused on the various IT aspects and challenges of coping with disaster risk reduction. ITDRR-2020 invites experts, researchers, academicians and all other who are interested to disseminate their work. The conference establishes an academic environment that fosters the dialogue and exchange of ideas between different levels of academic, research, business and public communities.



All accepted papers will be published in [IFIP AICT](#) series by **Springer** as post-conference proceedings and they will be indexed by **Scopus**.

CALL FOR PAPERS

ITDRR-2020 will provide an open forum for the dissemination of the current research progress, innovative approaches and original research results on application of Information Technology for Disaster Risk Reduction. The conference will focus on, but will be not limited to the following topics:

- Advanced ICT and disasters
- Artificial Intelligence for disasters
- Big Data and disasters
- Climate change and disaster risk
- Climate information management
- Climate information processing
- Cloud Computing in emergency management
- Communications in disasters
- Crowdsourcing and emergency management
- Disaster information processing
- Disaster prevention and mitigation
- Disaster relief, resilience and research
- Disaster risk management capability assessment
- Emergency preparedness
- Hazard, vulnerability and risk mapping
- ICT challenges in emergency management
- Integrated risk governance
- IoT and natural disasters
- Mobile computing and emergency management
- Disaster monitoring
- Disaster response management
- Disaster information management in response, recovery, preparedness, and mitigation
- Disaster risk assessment
- Disaster risk management
- Disaster risk reduction
- Disasters and security
- Hazard and vulnerability analysis
- Security and privacy issues in disaster management
- Simulation and gaming for disaster management
- Social media and disasters
- Socio-economic impacts of disasters
- State of the art of command and control room.

<i>Paper Submission Deadline</i>	May 3rd, 2020
<i>Notification of acceptance</i>	June 7th, 2020
<i>Registration – Early Bird</i>	To June 28 th , 2020
<i>Registration – Normal</i>	After June 28 th , 2020
<i>ITDRR-2020</i>	July 15 - 17th, 2020
<i>Camera-Ready version</i>	October 25 th , 2020

CONFERENCE COMMITTEES

Honorable Chairs:

Yuko Murayama, Prof. Dr.	IFIP Vice President	Japan
Dimitar Dimitrov, Prof. Dr., Rector	University of National and World Economy	Bulgaria

Program Committee Co-Chairs:

Dimiter Velev, Prof. Dr.	University of National and World Economy (IFIP TC5)	Bulgaria
Plamena Zlateva, Assoc. Prof. Dr.	Institute of Robotics, Bulgarian Academy of Sciences	Bulgaria

Finance Chair:

Eduard Dundler	IFIP Secretary	Austria
-----------------------	----------------	----------------

Publicity Chair:

Jun Sasaki, Prof. Dr.	Iwate Prefectural University	Japan
------------------------------	------------------------------	--------------

Steering Committee:

Diane Whitehouse, Prof. Dr.	IFIP TC9 : ICT and Society Former Chair	UK
Erich Neuhold, Prof. Dr.	IFIP TC5 : IT Application Former Chair	Austria
Jose J. Gonzalez, Prof. Dr.	University of Agder	Norway
A Min Tjoa, Prof. Dr.	IFIP Honorary Secretary	Austria
Igor Grebennik, Prof. Dr.	Kharkiv National University of Radio Electronics	Ukraine

Program Committee:

Andreas Karcher, Prof. Dr.-Ing.	Universität der Bundeswehr	Germany
Anna Förster, Prof. Dr.	Bremen University	Germany
Benny Benyamin Nasution, Dr.	Politeknik Negeri Medan	Indonesia
Boris Delibasic, Prof. Dr.	University of Belgrade	Serbia
Chrisantha Silva, Dr.	Computer Society of Sri Lanka	Sri Lanka
Denis Trcek, Prof. Dr.	University of Ljubljana	Slovenia
Gabriela Marín-Raventós, Prof. Dr.	IFIP Councillor	Costa Rica
Gansen Zhao, Prof. Dr.	South China Normal University	China
Hans J. Scholl, Prof. Dr.	University of Washington	USA
Henrik Eriksson, Prof. Dr.	Linköping University	Sweden
Hsin-Hung Wu, Prof. Dr.	National Changhua University of Education	Taiwan
Igor Petuhov, Prof. Dr.	Volga State University of Technology	Russia
Jaziar Radianti, Dr.	University of Agder	Norway
Jian Cao, Prof. Dr.	Shanghai Jiaotong University	China
Josune Hernantes, Prof. Dr.	University of Navarra	Spain
Julie Dugdale, Prof. Dr.	University of Grenoble	France
Kai Ranenberg, Prof. Dr.	IFIP Vice President	Germany
Kim Hee Dong, Prof. Dr.	Hankuk University of Foreign Studies	Korea
Kyungsoo Pyo, Dr.	National Disaster Management Research Institute	Korea
Leire Labaka, Prof. Dr.	University of Navarra	Spain
Lyudmila Steshina, Prof. Dr.	Volga State University of Technology	Russia
Marcos R.S. Borges, Prof. Dr.	Universidade Federal do Rio de Janeiro	Brazil
Mariki Eloff, Prof. Dr.	University of South Africa	South Africa
Mariyana Nikolova, Prof. Dr.	NIGGG - BAS	Bulgaria

Michinori Hatayama , Prof. Dr.	Disaster Prevention Research Institute, Kyoto University	Japan
Mihoko Sakurai , Dr.	University of Agder	Norway
Mike Diver , Prof. Dr.	Australian Computer Society	Australia
Monika Buscher , Prof. Dr.	Lancaster University	UK
Murray Turoff , Prof. Dr.	New Jersey Institute of Technology	USA
Nariyoshi Yamai , Prof. Dr.	Tokyo University of Agriculture and Technology	Japan
Nikolai Roenko , Dr.	Miratex, Vice-President of UFI	Ukraine
Nirit Bernstein , Prof. Dr.	Institute of Soil, Water and Environmental Science	Israel
Naoto Matsumoto , Prof. Dr.	Sakura Internet Research Center	Japan
Olena Chaikovska , Assoc. Prof. Dr.	Kyiv National University of Culture and Arts	Ukraine
Orhan Altan , Prof. Dr.	Istanbul Technical University	Turkey
Patrick Letouze , Prof. Dr.	Universidade Federal do Tocantins	Brazil
Rainer Malaka , Prof. Dr.	Bremen University	Germany
Remy Dupas , Prof. Dr.	Université Bordeaux	France
Saji Baby , Dr.	GEO International Environmental Consultation Co.	Kuwait
Sergei Kavun , Prof. Dr.	Interregional Academy of Personnel Management	Ukraine
Sergei Ohrimenco , Prof. Dr.	Laboratory of Information Security, AESM	Moldova
Shi Yizhe , Dr.	Shenyang University of Chemical Technology	China
Shunsuke Fujieda , Prof. Dr.	University of Tokyo	Japan
Starr Roxanne Hiltz , Prof. Dr.	New Jersey Institute of Technology	USA
Stewart James Kowalski , Prof. Dr.	Norwegian University of Science and Technology	Norway
Tadeusz Czachorski , Prof. Dr.	Institute of Theoretical and Applied Informatics – PAS	Poland
Tao Bo , Dr.	Earthquake Administration of Beijing Municipality	China
Tetsuo Noda , Prof. Dr.	Shimane University	Japan
Tatsuya Yamazaki , Prof. Dr.	Niigata University	Japan
Tullio Tanzi , Prof. Dr.	Telecom ParisTech	France
Valentina Komyak , Prof. Dr.	National University of Civil Defence of Ukraine	Ukraine
Victor A. Bañuls Silvera , Prof. Dr.	Universidad Pablo de Olavide	Spain
Victor de Pous	Legal Counsel for Digital Technology and Legal Analyst	Netherlands
Wei-Sen Li , Dr., Secretary General	National Science and Technology Center for Disaster Reduction	Taiwan
Wolfgang Reinhardt , Prof. Dr.-Ing.	Universität der Bundeswehr	Germany
Yoshitaka Shibata , Prof. Dr., Vice President	Iwate Prefectural University	Japan
Yutaka Kikuchi , Prof. Dr.	Kochi University of Technology	Japan
Zong Xuejun , Prof. Dr.	Shenyang University of Chemical Technology	China

Organizing Committee:

Marin Galabov , Assoc. Prof. Dr.	University of National and World Economy	Bulgaria
Sonya Damyanova , Assoc. Prof. Dr.	University of Forestry	Bulgaria
Valentina Nikolova , Ch. Assist. Dr.	University of Mining and Geology	Bulgaria
Kostadin Sheyretski , Ch. Assist. Dr.	University of National and World Economy	Bulgaria
Vladimir Velez	Creativity and Harmony Society	Bulgaria

Science Research Center for Disaster Risk Reduction
University of National and World Economy, Sofia, Bulgaria

