



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session: Advanced Modelling of Health Systems and Policies

Name, Title and Affiliation of Chair:

Marco Anisetti, PhD, Associate Professor, University of Milan, Milan, Italy

Dario Brdarić, PhD, Head of Department, Institute of Public Health for the Osijek-Baranya County, Osijek, Croatia

Gwanggil Jeon, PhD, Associate professor, Incheon National University, South Korea

Details of Session (including aim and scope):

According to the World Health Organization (WHO), a well-functioning health system working in harmony is built on having trained and motivated health workers, a well-maintained infrastructure, and a reliable supply of medicines and technologies, backed by adequate funding, strong health plans and evidence-based policies. Effective laws and efficient legal component are important bases in creation and setting up of health systems and public health policies. Challenges like communicable and non-communicable diseases must have a legal component.

This session is specialised for researchers of different disciplines, data scientist, big data experts, policy makers and clinicians, from academia and industry, oriented in solving the challenges by multisectoral approach. The session is linked to **Universal health coverage (UHC) and Sustainable Development Goals (SDGs)**. Data is a key issue of Agenda 2030 and main goal of this session is to present novel approaches in modelling and usage of health big data. Target groups which could be interested in this session: Governments, Public Health Experts, Policy Makers, Multi-National Organizations, Statistical Bodies, R&D Bodies, Civil Society, Private Providers, Health Providers, Health Managers, Academics and Scientists.

UHC is defined by WHO as ensuring that all people can use the promotive, preventive, curative, rehabilitative and palliative health services they need, of sufficient quality to be effective, while also ensuring that the use of these services does not expose the user to financial hardship.

The task of SDG 3 is to ensure healthy lives and promote well-being for all at all ages.

As we live in “data revolution” and new technologies, efficient usage of health data and evidence-based decision-making tools can be used in implementation and monitoring of UHC and SDGs.

Topics for the workshop include, but are not limited to:

- Privacy aware Big Data models
- Role of big data in health systems reforms
- Efficient health systems and SDGs
- SDGs and health data
- Data driven modelling of health policies
- Innovative Big Data usage in UHC
- Security aspects in health systems and Big Data analytics
- Monitoring of SDG 3 – big data approach
- Decision support systems in policy making
- Novel Big data solutions for health-related policy making

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Research Centre:

Josip Juraj Strossmayer University of Osijek, Faculty of Dental Medicine and Health, Osijek, Croatia

SESAR Lab, Università degli studi di Milano, Computer Science Department

Researchers:

Matej Šapina, MD, PhD, Josip Juraj Strossmayer University of Osijek, Faculty of Dental Medicine and Health, Osijek, Croatia

Karolina Kramarić, MA, Josip Juraj Strossmayer University of Osijek, Faculty of Dental Medicine and Health, Osijek, Croatia

Ernesto Damiani, EBTIC/Khalifa University of Science and Technology, UAE

Claudio Agostino Ardagna, Università degli Studi di Milano, Italy

Awais Ahmad Bahria University, Islamabad, Pakistan

Matthieu Garcin, PhD, Léonard de Vinci Pôle Universitaire, Research center, Paris La Défense, France

Chandan Karmakar, PhD, School of Information Technology, Deakin University, Geelong, Australia

Alexander Degelsegger-Márquez, PhD, Austrian National Public Health Institute, Vienna, Austria

Katharina Habimana, MA, Austrian National Public Health Institute, Vienna, Austria

Bettina Borisch, PhD, Institute of Global Health, University of Geneva, Geneva, Switzerland

Arzija Pašalić, PhD, University of Sarajevo, Faculty of Health Studies, Sarajevo, Bosnia and Herzegovina

Celia Blasszauer, MD, Medicalscan Kft, Budapest, Hungary

Gabriele Gianini, Università degli Studi di Milano, Italy

Website URL of Call for Papers (if any):

<http://sesar.di.unimi.it/call/hcis-20-special-session/>

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