

# PRACTITIONER DAY at ORAHS 2019

- July 30, 2019 -

Karlsruhe Palace | Schlossbezirk 10, 76131 Karlsruhe

The EURO Working Group on Operational Research Applied to Health Services (ORAHS) was formed in 1975 as part of a programme for developing special interest groups within the European branch, EURO, of the International Federation of Operational Research Societies, IFORS. ORAHS provides a network for researchers involved in the application of systematic and quantitative analysis in support of planning and management in the health services sector. The meeting is open to anyone with a quantitative background and those who have interest in the subject area.

The Practitioner Day especially targets healthcare professionals working for example in hospitals, consulting firms or insurance companies to enable an exchange and open discussions between research and practice.

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## PROGRAMME

09:00 – 09:30	Registration
09:30 – 11:00	WORKSHOP
11:00 – 11:30	Coffee break
11:30 – 13:00	WORKSHOP
13:00 – 14:00	Lunch
14:00 – 15:00	KEYNOTE BRIDGING VISION AND REALITY: BIG DATA AND AI IN HEALTHCARE Dr. Dr. Matthias Reumann
15:00 – 16:00	Coffee break & poster session
16:00 – 17:30	PRESENTATIONS
18:30	BBQ

### WORKSHOP

During the workshop, Prof. Dr. Stefan Nickel, Dr. Melanie Reuter-Oppermann and members of KSRI will give an introduction into operations research approaches for improving healthcare logistics and services. We will present and discuss mathematical models and heuristics, simulation models and machine learning approaches for planning problems arising in hospitals, general practitioners' practices or emergency medical service systems. Examples taken from research and industry projects include simulation studies for emergency departments, models for locating ambulances and bases, methods for staffing and nurse rostering as well as approaches for determining hospital layouts. We will try and match topics with the participants' backgrounds and preferences.

### KEYNOTE BRIDGING VISION AND REALITY: BIG DATA AND AI IN HEALTHCARE

Dr. Dr. Matthias Reumann | Researcher in Sustainable, Resilient Health Systems at IBM Research – Zürich

The rise of Big Data and the resurgence of artificial intelligence in healthcare and lifescience holds promises that claim to lead to a creative disruption of medicine. Several publications have demonstrated the power of AI with respect to improving diagnosis and treatment. However, most of these publications were carried out under experimental conditions. AI in healthcare has gone from a forming to a storming phase. It is essential that the next step to the norming phase will be achieved so that the power of AI and Big Data can be harnessed and perform to its expectations. To realize the potential of new technology and the fast-paced innovation in digital health, a solid foundation of quality data and methods has to be built. This talk will illustrate the vision of how big data and AI could transform healthcare giving real world examples that show the status quo of digital health bridging reality and vision from genes to society.

### REGISTRATION

Please register at [orahs2019.de](http://orahs2019.de) | Contact: [orahs2019@ksri.kit.edu](mailto:orahs2019@ksri.kit.edu)

Registration fee: 150 €