Information

When
Thursday, 30. January, 2020
14.00 – 18.00 h

Organization and contact
University Hospital Zurich
Department of Radiation Oncology
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Registration
Until January 15th 2020
joana.bischofberger@usz.ch

Venue
University Hospital Zurich
Lecture Hall West U
Rämistrasse 100
8091 Zurich

Directions
Tramlines 6, 9, 10 to stop ETH / Universitätsspital

Comprehensive Cancer Center Zürich
Augmented intelligence for quality improvement in Oncology
Thursday, 30. January 2020, 14.00 – 18.00 h
Lecture Hall West U, University Hospital Zurich
Over the past years we have witnessed the introduction of artificial intelligence based applications into our daily life. Some of these have reached a stunning level of sophistication that surprised many: Self-driving cars are predicted to revolutionize the way we envision transportation logistics, or self-learning algorithms reaching unprecedented independent skill levels in games like Go or massive online gaming environments.

Of course, these amazing developments are also being applied to medical challenges that we currently face, especially in oncology where we seek to improve our possibilities for screening, detection and treatment of cancer. Many headlines have cited recent research work where machine learning algorithms outperformed human doctors and were heralding the take over “by the machines”.

With our symposium we would like to put these developments into perspective:
– highlight the role of academia and industries to best exploit the promise of AI
– give an exciting outlook on what can be achieved with AI to improve quality in oncology
– critically discuss the integration of AI in medical care and the future role of the human factor

We hope that you will enjoy the program we compiled and are looking forward to exciting talks and a vivid discussion.

N. Andratschke, Prof. Dr.
A. Boss, Prof. Dr. Dr.
J. Unkelbach, Prof. Dr.
E. Konukoglu, Prof. Dr.

The Executive Committee on behalf of the CRPP
"Artificial Intelligence in Oncological Imaging"

### Program

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<th>Time</th>
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<tr>
<td>14.00 h</td>
<td>Intro to Symposium and CRPP</td>
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| 14.15 h | Surgeon enhancing technologies  
Prof. Farshad: University Hospital The Balgrist |
| 14.35 h | Modern artificial intelligence for medical imaging – a new approach using CLARA  
Marc Stoempflli, NVIDIA Switzerland |
| 14.55 h | Learning to adapt in safety-critical systems  
Prof. Dr. Melanie Zeilinger, ETH |
| 15.15 h | Examples and learnings from the implementation of healthcare decision support projects in Europe and Switzerland  
Dr. Axel Nemetz, IBM Switzerland |
| 15.35 h | BREAK |
| 16.10 h | Natural language processing for Supporting Quality Care in Oncology  
Prof. Dr. Michael Krauthammer, UZH |
| 16.30 h | Data-driven radiation Oncology  
Fredrik Lofman, PhD, RaySearch |
| 16.50 h | Digital Transformation in Breast Imaging: the b-box solution  
PD Dr. Cristina Rossi, USZ, b-rayZ GmbH |
| 17.10 h | Deep learning for medical imaging  
Dale Webster, PhD, Google |
| 17.30 h | Round Table, Discussion |
| 18.00 h | Apéro |

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University Hospital Zurich

Mr. ☐  Mrs. ☐  Prof. ☐  Dr. ☐

Please register until January 15th 2020  
E-Mail joana.bischofberger@usz.ch