

# Opportunities for Artificial Intelligence with real world patient data



**CASUS**  
CENTER FOR ADVANCED  
SYSTEMS UNDERSTANDING

**HZDR**  
HELMHOLTZ ZENTRUM  
DRESDEN ROSENDOFF

**HiDA**

## Report of Contributions

Contribution ID: 26

Type: **not specified**

## **'From single- to multi-modal learning, how far from medical precision?'**

*Tuesday 31 October 2023 16:00 (30 minutes)*

**Presenter:** PAPANASTASIOU, Giorgos (Pfizer Inc)

**Session Classification:** Session Opportunities of AI with real world data Part 1

Contribution ID: 27

Type: **not specified**

## **'Tumor detection, classification and segmentation with Mask R-CNN'**

*Tuesday 31 October 2023 16:30 (20 minutes)*

**Presenter:** SAPORTA, Albert (EISBM)

**Session Classification:** Session Opportunities of AI with real world data Part 1

Contribution ID: 28

Type: **not specified**

## **'Using machine learning for the analysis of synchrotron radiation-based micro computed tomography data of bone implants'**

*Tuesday 31 October 2023 16:50 (20 minutes)*

**Presenter:** ZELLER-PLUMHOFF, Berit (Helmholtz-Zentrum Hereon)

**Session Classification:** Session Opportunities of AI with real world data Part 1

Contribution ID: 29

Type: **not specified**

## **'Challenges of using electronic health records to build machine learning models for outcome predictions'**

*Wednesday 1 November 2023 09:00 (20 minutes)*

**Presenter:** BOIE, Sebastian (Pfizer Pharma GmbH)

**Session Classification:** Session Opportunities of AI with real world data Part 2

Contribution ID: 30

Type: **not specified**

## **'How AI is Reshaping Life Sciences Research: Examples from the Frontlines'**

*Wednesday 1 November 2023 09:20 (20 minutes)*

**Presenter:** FRANKE, Vedran (BIMSB)

**Session Classification:** Session Opportunities of AI with real world data Part 2

Contribution ID: 31

Type: **not specified**

## 'The Helmholtz Foundation Model Initiative'

*Wednesday 1 November 2023 09:40 (20 minutes)*

**Presenter:** KAINMUELLER, Dagmar (MDC)

**Session Classification:** Session Opportunities of AI with real world data Part 2

Contribution ID: 32

Type: **not specified**

## **'Optimal treatment for patients with solid tumours in Europe through Artificial Intelligence'**

*Wednesday 1 November 2023 13:00 (20 minutes)*

**Presenter:** KUBE, Frederic (Pfizer Pharma GmbH)

**Session Classification:** Session Comprehensive and complete real world patient data Part  
1



Contribution ID: 33

Type: **not specified**

## 'OPTIMA: Data Discovery and Outreach to Data Partners'

*Wednesday 1 November 2023 13:20 (20 minutes)*

**Presenter:** TAN, Cheryl (University of Oxford)

**Session Classification:** Session Comprehensive and complete real world patient data Part 1

Contribution ID: 34

Type: **not specified**

## **'How to unlock the potential of Multi-Omics for application in clinical routine?'**

*Wednesday 1 November 2023 14:10 (20 minutes)*

**Presenter:** KREUZ, Markus (Fraunhofer IZI)

**Session Classification:** Session Comprehensive and complete real world patient data Part 2

Contribution ID: 35

Type: **not specified**

## 'Label-efficient deep learning for biomedical microscopy'

*Wednesday 1 November 2023 14:30 (20 minutes)*

**Presenter:** YAKIMOVICH, Artur (CASUS - Center for Advanced Systems Understanding, Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR), Untermarkt 20, 02826 Görlitz, Germany)

**Session Classification:** Session Comprehensive and complete real world patient data Part 2

Contribution ID: 36

Type: **not specified**

## **'Research with Real-World Data: Strategies and Structures at Charité and BIH'**

*Wednesday 1 November 2023 14:50 (20 minutes)*

**Presenter:** PRASSER, Fabian (BIH @ Charité)

**Session Classification:** Session Comprehensive and complete real world patient data Part 2

Contribution ID: 37

Type: **not specified**

## 'Federated analytics and federated learning in big data healthcare projects'

*Wednesday 1 November 2023 17:10 (20 minutes)*

**Presenter:** DE MEULDER, Bertrand (EISBM)

**Session Classification:** Session Software infrastructures for federated data access and analysis Part 1

Contribution ID: 38

Type: **not specified**

## 'Federated Learning in Healthcare: Opportunities, Challenges, and Future Directions'

*Wednesday 1 November 2023 17:30 (20 minutes)*

**Presenter:** ANKOLEKAR, Anshu (Maastricht University)

**Session Classification:** Session Software infrastructures for federated data access and analysis Part 1

Contribution ID: 39

Type: **not specified**

## 'Federated Scientific AI Services in the Helmholtz Cloud'

*Thursday 2 November 2023 09:20 (20 minutes)*

**Presenter:** JUCKELAND, Guido (Helmholtz-Zentrum Dresden-Rossendorf)

**Session Classification:** Session Software infrastructures for federated data access and analysis Part 2

Contribution ID: 40

Type: **not specified**

## **'Developing a Federated Data Analysis Platform in the context of IMI OPTIMA'**

*Thursday 2 November 2023 09:40 (20 minutes)*

**Presenter:** KREMER, Andreas

**Session Classification:** Session Software infrastructures for federated data access and analysis Part 2



Contribution ID: 41

Type: **not specified**

## 'HIFIS: Helmholtz Digital Services for Science — Collaboration made easy'

*Thursday 2 November 2023 09:00 (20 minutes)*

**Presenter:** JANDT, Uwe (DESY, HIFIS Coordinator)

**Session Classification:** Session Software infrastructures for federated data access and analysis Part 2