

# Conference Agenda

## Session

### SES-07: Reconstruction, Algorithms and Optimization II

*Time: Thursday, 06/Feb/2025: 1:50pm - 3:10pm*

*Session Chair: Katja Schladitz*

*Session Chair: Anne-Françoise Obaton*

## Presentations

### **Uncertainty quantification of CT regularized reconstruction within the Bayesian framework**

**Negin Khoehniha, Patricio Guerrero Prado, Wim dewulf**

KU Leuven, Belgium

### **Volumetric Denoising of XCT Data Using Quantum Computing**

**Anastasia Papadaki, Thomas Lang, Kilian Dremel, Dimitri Prjamkov, Markus Firsching, Mareike Weule, Stefan Kasperl, Theobald OJ Fuchs**

Fraunhofer Institute of Integrated Circuits IIS, Division Development Center X-ray Technology, Flugplatzstraße 75, 90768 Fürth, Germany

### **Differentiable Few-view CT-Reconstruction for Arbitrary CT-Trajectories including Prior Knowledge**

**Linda-Sophie Schneider<sup>1,2</sup>, Adrian Waldyra<sup>2</sup>, Yipeng Sun<sup>1,2</sup>, Andreas Maier<sup>1,2</sup>**

<sup>1</sup>Pattern Recognition Lab, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany; <sup>2</sup>Fraunhofer EZRT, Flugplatzstraße 75, 90768 Fürth, Germany

### **Learning-Based Image Restorations of Sparse-View CT Data: Is It Reliable?**

**Philip Maurice Trapp<sup>1,2</sup>, Elias Eulig<sup>1,3</sup>, Joscha Maier<sup>1</sup>, Frederic Ballach<sup>2</sup>, Raoul Christoph<sup>2</sup>, Ralf Christoph<sup>2</sup>, Marc Kachelrieß<sup>1,3</sup>**

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