



UNIVERSITY
OF APPLIED SCIENCES
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Program & guidebook iCT Conference 2026



15th Conference on Industrial Computed Tomography

Non-destructive Testing
3D Materials Characterisation
Dimensional Measurement

February 10-13, 2026
University of Applied Sciences Upper Austria

fh-ooe.at/ict2026

Welcome to the 15th iCT Conference

Industrial X-ray computed tomography (CT) is a method whose relevance has increased more and more because of its great advantages. CT is a non-destructive method for measuring components 3-dimensionally in order to find hidden features (e.g. shrink-holes, cracks, inclusions, pores, etc.) in the depth of the material and to determine physical variables like porosity and density.

Registration and information desk

The iCT registration and information desk will be situated near the main entrance.

Occupied

February 10-12: 08:00 am - 06:00 pm
February 13: 08:00 am - 01:00 pm

Contact

congress@fh-ooe.at

Internet access

An extra sheet providing the access code for the wireless internet connection is available at the info point.

CT allows the inspection and measurement of hidden and inaccessible specimen characteristics, which is not possible with other techniques. Due to the increasing dispersion of industrial CT, the method development and application areas are growing at a fast pace. Presentations of this conference will give insight into the newest developments as well as the established methods.

Organiser

University of Applied Sciences Upper Austria (FH Upper Austria), Wels Campus

In cooperation with the ÖGfZP (Austrian Association for Non-destructive Testing), DGZfP (German Association for Non-destructive Testing), SGZP (Swiss Association for Non-destructive Testing).

Venue

FH Upper Austria, Linz Campus,
Building A, Garnisonstraße 21,
4020 Linz/Austria

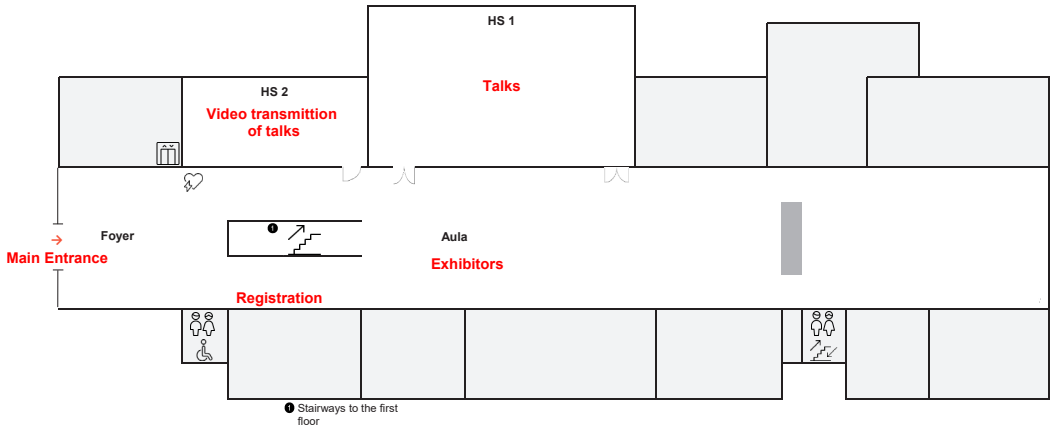
Conference Language: English



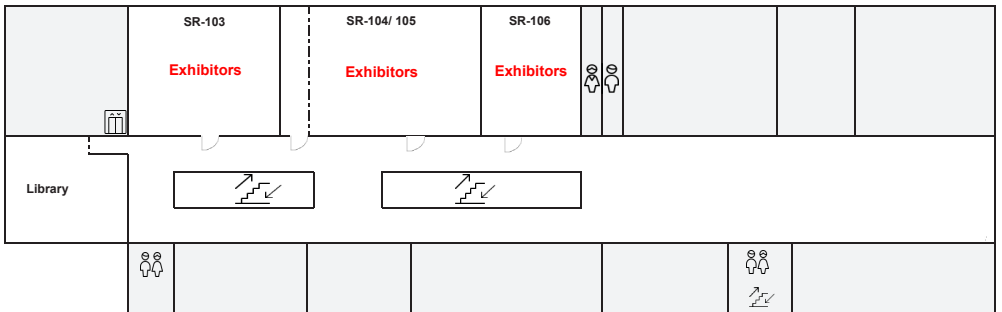
Pictures and Videos will be taken during the event. We point out that these pictures and videos may be published.

Floorplan (Building A)

→ Ground Floor



→ 1st Floor



Partners

amul OSRAM

comet
x-ray

comet
yxlon

dragonfly

excillum

diondo
x-ray systems and services

CACTUX



Fraunhofer
EZRT

HAMAMATSU
PHOTON IS OUR BUSINESS



PXR



maXerial

RX SOLUTIONS

Quantum Design
EUROPE

Morgan
Advanced Materials

SANYING

NOVITOM

Reactiv'IP
SMART IMAGE PROCESSING

VOXRAY

VAREX
IMAGING

TELEDYNE IMAGING
Everywhereyoulook™

Tescan

Thermo Fisher
SCIENTIFIC

SpectrumLogic
INNOVATION IN IMAGING

xnovotech
— a RAITH company —

Waygate
Technologies
a Baker Hughes business

VISCOM
vision technology

Rigaku



ZEISS

X-RAY
WorX
Superior Microfocus Technology

TAKE A RISK
VISIT LINZ

X-SPECTRUM

Seeing beyond

Program overview

Industry Day

Tuesday, February 10

- 01:00 pm Welcome to Industry Day and Talks by Sponsors
- 03:15 pm Break
- 03:45 pm Talks by Sponsors
- 06:00 pm Dinner

Conference, February 11 - 13

Wednesday, February 11

- 08:00 am Registration
- 08:30 am Welcome and Introduction
- 08:40 am Keynote (I)
- 09:10 am in-situ Investigations
- 10:30 am Break
- 11:00 am Multi Modal and Spectral CT
- 12:40 pm Lunch
- 01:40 pm Metrology
- 03:00 pm Break
- 03:30 pm Bus transfer to Wels Campus
- 04:50 pm Short Talks
- 05:30 pm Poster Session & Brettljause
- 07:00 pm Guided LabTours
- 08:00 pm Bus transfer back to Linz Campus



Thursday, February 12

- 08:00 am Registration
- 08:30 am Keynote (II)
- 09:00 am Roboter and Inline CT
- 10:00 am Break
- 10:30 am Inline CT and Tools for CT
- 12:10 pm Lunch
- 01:10 pm Machine Learning
- 02:30 pm Break
- 03:00 pm Material Characterization I
- 06:00 pm Conference Dinner at Josef Linz

Friday, February 13

- 08:00 am Registration
- 08:30 am Keynote (III)
- 09:00 am Material Characterization II
- 10:20 am Break
- 10:50 am Reconstruction
- 12:10 pm Closing and iCT2027 Preview and Lunch

Industry Day

Tuesday, February 10

01:00 pm – 01:05 pm: Welcome

01:05 pm – 06:00 pm: Talks by Sponsors (6 or 10mins)

Chair: Kastner J.

-
- 01:05 pm **X-ray Technology – Key for Overcoming Technological and Economic Challenges**
Michael Salamon, Fraunhofer-Institut für Integrierte Schaltungen IIS, DE
-
- 01:15 pm **From Small to Large: Advanced X-ray Imaging at the ESRF**
Athanasios Papazoglou, ESRF The European Synchrotron, FR
-
- 01:25 pm **Diffraction and Tensor Tomography and state-of-the-art 3D image processing**
Sven Gondrom-Linke, Xnovo Technology ApS, DK
-
- 01:35 pm **Complete Battery Cell Testing in Seconds using CT**
Michael Victor, Werth Messtechnik GmbH, DE
-
- 01:45 pm **Innovative, configurable CT systems**
Benjamin Zengerling, diondo GmbH, DE
-
- 01:55 pm **Enhancing Reliability and Consistency: Fully Automated X-ray Source Optimisation**
Chris Price, Nikon Metrology, BE
-
- 02:01 pm **Innovation in the CT market**
Roland Le Floch, RX-SOLUTION, FR
-
- 02:07 pm **Scan, Analyze, Innovate: An Open-Source Python Ecosystem for End-to-End Computed Tomography**
Martin Hildebrand, ProCon X-Ray GmbH, DE
-
- 02:13 pm **Deep learning based reconstruction algorithms for 3D X-ray Imaging**
Karim Abdelhamid, ZEISS, USA
-
- 02:19 pm **From Nano to Macro: Comprehensive CT Solutions for the Smallest Details - even in Extra-Large Components**
Christian Jeuschede, Comet Yxlon GmbH, DE
-
- 02:25 pm **Exploring the Portfolio of Rigaku CT Systems**
Ramil Gainov, Rigaku Europe SE, DE
-
- 02:31 pm **Advancing In-Situ Micro-CT: High-Resolution Imaging Integrated Into Dynamic Workflows**
Michiel Krols, Tescan, AT
-
- 02:37 pm **AI-Enhanced CT Imaging: Breakthrough Applications of Deep Learning-Based Restoration Technology for Reconstruction Quality Improvement**
Dong Li, Sanying Precision Instruments Co. Ltd, CHN
-
- 02:43 pm **Phoenix Nanotom HR: Submicrometer CT Imaging made accessible**
Oliver Brunke, Waygate Technologies, DE
-

- 2:49 pm **Three Steps Forward: High Power, High Energy and High Precision in Microfocus X-Ray Technology**
Vladimir Burlaka, X-RAY WorX GmbH, DE
-
- 02:59 pm **How do our CD-coatings prevent insulators used in high-performance vacuum tubes from suffering electron accumulation caused by field emission or secondary/tertiary electron emission?**
Joerg-Uwe Wichert, Morgan Advances Materials Wesgo Ceramics GmbH, DE
-
- 03:09 pm **Real-Time CMOS X-ray Detectors for Next Generation In-line Semiconductor Inspection**
Asmar Khan, Spectrum Logic, DE
-
- 03:19 pm **Shaping Tomorrow's X-Ray Imaging: Advanced ASIC Solutions for Industry Challenge**
Christian Wurzer, asm OSRAM AG, DE
-

03:35 pm – 04:00 pm: Break

Chair: Glinz J.

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- 04:00 pm **Advanced In-Situ CT: NOVITOM unveils material behaviour under load with NOVI CT-Rig tensile/compression uniaxial machine linking materials microstructure and performances**
Andréa Ciuffini, NOVITOM, FR
-
- 04:10 pm **The LAMBDA Cameras for Industrial CT: Speed, Resolution, and Uptime**
Pidassa Bidola, X-Spectrum, DE
-
- 04:20 pm **New developments in CT instruments technology: open-type MFX and flat panel sensors**
Sara Ziliani, HAMAMATSU PHOTONICS, DE
-
- 04:26 pm **Advancing the Future of Imaging**
Martin Hauser, Marcus Yap, Varex Imaging, USA
-
- 04:32 pm **Experience the Power of 320 kV: Discover why Viscom's microfocus X-ray Tube is perfect for CT Applications!**
Fatih Kalkan, Viscom SE, DE
-
- 04:38 pm **High-resolution, high-throughput CT: X-ray sources for industrial challenges**
Emil Espes, excillum, SWE
-
- 04:44 pm **Quantum Design - your solution provider for CT applications**
Andreas Bergner, Quantum Design GmbH, DE
-
- 04:50 pm **Fast, high-resolution X-ray detectors for 3D imaging**
Erik-Jan Manoury, Teledyne Digital Imaging, USA
-
- 04:56 pm **Advanced addons for X-ray systems**
Jakub Šalplachta, CactuX s.r.o., CZ
-
- 05:02 pm **Enhancing X-ray inspection in the AI era**
Chris Nicholson, Comet X-ray, CH
-

05:08 pm **Industrial AI Without the Hype: Lessons from Real CT Deployments**
Roger Herger, maXerial AG, LI

05:18 pm **Next-Generation CT-Reconstruction**
Darius Rückert, Voxray GmbH, DE

05:24 pm **IPSDK Explorer, Optimized Image analysis software: get the best out of your CT scans**
Joseph Baptista, Reactiv'IP, FR

05:30 pm **Redefining CT Inspection: Deep Insights Enabled by Dragonfly**
Christian Johanns, Dragonfly, CA

05:36 pm **Advanced image processing and analysis using the latest Machine Learning driven tools in Avizo Software**
Jan Giesebrecht, Thermo Fisher Scientific, FR

Conference on Industrial Computed Tomography

Wednesday, February 11

08:00 am – 08:30 am: Registration
08:30 am – 08:40 am: Welcome and Introduction
08:40 am – 09:10 am: Keynote (I)

Keynote (I)

Chair: Sijbers J., Kastner J.

CT for investigations of materials for hydrogen applications

Julia Thalhammer, University of Applied Sciences Upper Austria, Wels, AT

09:10 am – 10:30 am: in-situ Investigation

in-situ Investigation

Chair: Sijbers J., Kastner J.

Investigating Stress-Induced Morphology in Sand–Rubber Mixtures Using X-ray CT

Shrey Pandel, University of Melbourne, AUS

Correlative in-situ examination of copper metallization layers using lab-based tomography and DFXM

Laura Neumann, Fraunhofer IKTS, DE

In Situ CT at Elevated Temperature: Single-Lap Shear Testing of Self-Piercing Riveted Composite–Metal Joints

Alrik Dargel, University of Technology Dresden, DE

In-situ investigation of fiber orientation and behavior in flowing polymer melts

Phi-Long Chung, University of Stuttgart, DE

10:30 am – 11:00 am: Break

11:00 am – 12:40 pm: Multi Modal and Spectral CT

Multi Modal and Spectral CT

Chair: Vavrik D., Senck S.

A One Shot Multi-Material/Polymer Differentiation with Spectral CT – first insights from the perspective of materials science

Christoph Queck, Leibniz-Institut für Verbundwerkstoffe GmbH, DE

Optimized Signal-to-Thickness Correction for Photon-Counting X-ray Detectors in Computed Tomography

Jonathan Glinz, University of Applied Sciences Upper Austria, AT

Enhanced Energy Resolution of Synchrotron Multispectral CT based on a Silicon Wafer Edge as Spectral-Splitting Optics

Steffen Kieß, University Stuttgart, DE

Prior-free Sparse-view Material Decomposition for Spectral CT using Neural Material Composition Fields

Takumi Hotta, The University of Tokyo, JPN

Spectral X-ray micro-CT Imaging of Rechargeable Alkaline Batteries

Luca Brombal, National Institute for Nuclear Physics, Division of Trieste, IT

12:40 pm – 01:40 pm: Lunch

01:40 pm – 03:00 pm: Metrology

Metrology

Chair: Carmignato S., Thalhammer J.

Advanced X-ray CT porosity analysis for metal laser powder bed fusion: comparing results using a process-specific reference object

Nicolò Bonato, University of Padova, IT

New standard proposal to support the additive manufacturing industry: metrological inspection using an XCT

Anne-Françoise Obaton, Laboratoire national de métrologie et d'essais, FR

Higher accuracy with fewer projections? Automated scan angle selection for dimensional Computed Tomography based on a simple data completeness measure for the part surface

Lorenz Butzhammer, Friedrich-Alexander-Universität Erlangen-Nürnberg, DE

Dimensional Metrology with X-Ray Computed Tomography Helical Scanning

Valentina Aloisi, Carl Zeiss Industrielle Messtechnik GmbH, DE

03:00 pm – 03:30 am: **Break**
03:30 pm: **Bus transfer to Wels Campus**
04:15 pm – 05:15 pm: **Short Talks**

Short Talks

Chair: Salamon M., Senck S.

-
- STP-01 Spatial Attention-based Segmentation of Spatter Particle Defects from X-ray Computed Tomography for Metal Additive Manufacturing**
Chaoyu Dong, Agency for Science, Technology and Research, SGP
-
- STP-02 Bi-Directional CT Image Transformation for Scalable and Realistic Data Generation**
Miroslav Yosifov, University of Applied Sciences Upper Austria, AT
-
- STP-03 Multi-stage image processing approach for 3D-CT based in- or at-line inspection of complex parts**
Sven Gondrom-Linke, Xnovo Technology ApS, DNK
-
- STP-04 Method for Optimizing Sample Orientation to Maximize Defect Visibility in X-ray Projections**
Pavel Blažek, Central European Institute of Technology, Brno University of Technology, CZE
-
- STP-05 Learning from Small Datasets with Hybrid Swin-Transformer in Industrial CT: A Case Study on Boxed Shoes**
Martin Leipert, Pattern Recognition Lab, FAU Erlangen-Nuremberg, DE
-
- STP-06 Impact of Synthetic and Real CT Training Datasets for Deep Learning Super Resolution Models**
Lukas Nepelius, University of Applied Sciences Upper Austria, AT
-
- STP-07 Multi-Energy HDR Synchrotron X-ray Computed Tomography**
Mustapha Eddah, Bundesanstalt für Materialforschung und -Prüfung, DE
-
- STP-08 Deep-learning based porosities segmentation applied to twin robotic CT images**
Julie Escoda, Université Paris-Saclay, FR
-
- STP-09 Improvement of Fine Structure Preservation in Denoising by Self-Supervised Learning Compared to Supervised Learning**
Faizan Ahmad, Department of Computational Imaging Systems, University of Stuttgart, DE
-
- STP-10 Mask-to-CT: Translating Electrode Masks to Synthesize CT-Style Battery Images**
Sunggyu Kim, Yonsei University, KOR
-

05:30 pm: **Poster Session & Brettljause**
07:00 pm: **Guided LabTours**
08:00 pm: **Bus transfer back to Linz Campus**

Poster Exhibition

- P-01 Isolating the Unwanted: Deep Learning-based Artifact Segmentation in Industrial CTScans—Insights from a Case Study on Metal Artifacts**
Jan Gräser, Hexagon Manufacturing Intelligence division, DE
-
- P-02 Comparative Analysis of Impact Damage in Thermoplastic and Thermoset CFRP Tubes Using Industrial Computed Tomography**
Markus Höglinger-Rauscher, University of Applied Sciences Upper Austria, AT
-
- P-03 Cross-platform generalization of deep learning-based denoising reconstruction algorithms for industrial computed tomography applications**
Andriy Andreyev, Carl Zeiss X-ray Microscopy, Dublin, CA, USA
-
- P-04 100% Inline Quality Assurance for Ex- and Pultruded Products through Innovative and Novel X-ray Inspection Systems**
Simon Rettenberger, Fraunhofer IIS, DE
-
- P-05 The ZnOrgBAT Project: a new generation of Zinc-based rechargeable batteries**
Tommaso Battiston, ZAG - Slovenian National Building and Civil Engineering Institute, SVN
-
- P-06 Do Microbes Like Additively Manufactured Aluminium?**
Alexander Ulbricht, Bundesanstalt für Materialforschung und-prüfung, DE
-
- P-07 WZL-XCore as an Open-Source Versatile Platform for Industrial xCT Data Visualization and Analysis**
Ahmed Baraka, WZL - RWTH Aachen University, DE
-
- P-08 Multi-Material Empirical Artifact Correction (MEAK): Efficient Algorithm for Correcting Beam Hardening Artifacts in Multi-Material CT**
Michael Victor, Werth Messtechnik GmbH, DE
-
- P-09 Design and manufacturing aspects of gauges for Detail Detection Sensitivity monitoring in industrial X-ray CT**
Josephine Gutekunst, Microworks GmbH, Karlsruhe, DE
-
- P-10 Parameter study on the print quality of 316L and 17-4PH stainless steel in the metal fused filament fabrication process**
Christoph Veyhl, Technical University of Applied Sciences Mannheim, DE
-
- P-11 LaB₆ Cathodes as an Alternative to W-Cathodes for High-Resolution Transmission X-Ray Tubes**
Vladimir Burlaka, X-RAY WorX GmbH, DE
-
- P-12 CT-Plus 320 kV: A High-Power Reflection X-Ray Tube for Demanding Applications**
Vladimir Burlaka, X-RAY WorX GmbH, DE
-
- P-13 Automatic registration of voxel datasets using feature descriptor matching**
Frank Liebold, Technische Universität Dresden, DE
-
- P-14 Evaluation of Diameter Measurement Errors in Bores and Shafts Using X-ray Computed Tomography and Different Fitting Methods**
Ágota Drégelyi-Kiss, Óbuda University, HUN
-
- P-15 Total Variation and Shearlet Amalgamated Regularization of Inverse Problems with Automatic Parameter Selection**
Xiaoya Chen, KU Leuven, Department of Mechanical Engineering, BEL
-

- P-16 How to label CT training data precisely (fast)**
Jan Gräser, Hexagon Manufacturing Intelligence division, DE
-
- P-17 Evaluation of Volumetric Image Quality in X-ray Computed Tomography for Single-and Multi-Material Samples Using Variable Scanning Parameters**
Ágota Drégelyi-Kiss, Óbuda University, HUN
-
- P-18 Algorithmic CT-Scan Geometry Optimisation and Fixtures from Sample CAD Models**
Nick Brierley, diondo GmbH, DE
-
- P-19 Measurement accuracy of iterative reconstructions with limitedxct data for dimensional measurements**
Nishitha Ravichandran, WMG, University of Warwick, GBR
-
- P-20 CenterMask3D: Are Bounding-Box Based Approaches Suitable for Volumetric Instance Segmentation?**
Martin Leipert, Deggendorf Institute of Technology, DE
-
- P-21 Advanced fiber morphology determination in short fiber reinforced plastics using tracer fibers**
Mike Kornely, Universität Stuttgart, Institut für Kunststofftechnik, DE
-
- P-22 Explainable AI (XAI) for Trustworthy Defect Detection in Industrial CT Scans**
Kolawole Ojo Adekunle, Landmark University Omu-Aran, Kwara State, NGA
-
- P-23 Synthetic X-ray Projections Generation from CT Data for Deep Learning Applications**
Markéta Tkadlecová, Brno University of Technology, CZE
-
- P-24 Image quality analysis and improvements in a Low-Cost CT System**
Davide Borghi, TEC Eurolab, IT
-
- P-25 Spectral Computed Tomography Based on Semi-Monochromatic Imaging**
Pavel Mikuláček, Institute of Mathematics, Brno University of Technology, CZE
-
- P-26 Developing a High-Energy CT Inspection Cell for Aerospace Parts**
Dirk Müter, Force Technology, DNK
-
- P-27 LOGITOM-casting: a complete workflow for automated conformity assessment of foundry castings using Computed Tomography**
Andréa Ciuffini, NOVITOM, FR
-
- P-28 Computed Tomography Insights into Degradation and Thermal Runaway Mechanisms in Lithium-Ion Batteries**
Lucia Hegedusova, European Commission, Joint Research Centre, NLD
-
- P-29 Application of micro-computed tomography in the analysis of the influence of post-processing in Multi Jet Fusion**
Patrik Mietliński, Poznan University of Technology, POL
-
- P-30 Metrological structural resolution for dimensional X-ray computed tomography measurements (CTMeSA) – a project presentation**
Simone Popp, Friedrich-Alexander-Universität Erlangen-Nürnberg, DE
-
- P-31 Automatisations of lens dedarkening for synchrotron tomography beamlines**
Fabien Léonard, European Synchrotron Radiation Facility, FR
-

-
- P-32 Mi.XRay: A Modular, GPU-Accelerated Monte Carlo Framework for Physically Based X-Ray Transport**
Lovro Nuic, Realistic Graphics Lab – EPFL, CHE
-
- P-33 Live Reconstruction in Ultra-fast Time-resolved Synchrotron CT**
Qianwei Qu, PSI Center for Scientific Computing, Theory and Data, CHE
-
- P-34 Implementation and benchmarking FFT-based Digital Volume Correlation for Synchrotron Micro-CT Analysis**
Jannik Stebani, Universität Würzburg, DE
-
- P-35 An Automated Pipeline for Surface Extraction, Anomaly Detection & Property Estimation Utilising Computed Tomography**
Matthew Stephen, Nuclear Security Technologies, UK
-
- P-36 X-ray robotic inspection methods to support the development of energy-absorbing material assemblies**
Adrien Stolidi, Université Paris Saclay, FR
-
- P-37 CTracks a dynamic pytorch-based framework for tomographic micro-particle velocimetry**
Wannes Goethals, UGCT - Dept. of Geology, Ghent University, BEL
-
- P-38 Impact of lossy compression on segmentation of CT-data**
Patrick Weinberger, University of Applied Sciences Upper Austria, AT
-
- P-39 3D Correlative Microscopy of Self-Healing high-strength Al Alloys: Connecting Synchrotron X-ray Nano-CT and DualBeam FIB-SEM**
Bartłomiej Winiarski, Thermo Fisher Scientific Brno s.r.o., CZE
-
- P-40 X-ray Analysis of 17th-Century Dutch Panel Painting**
Michal Vopálenký, Czech Academy of Sciences, CZE
-
- P-41 Multimodal inspection of electronic components using X-ray microcomputed laminography and scanning electron microscopy**
Sascha Senck, University of Applied Sciences Upper Austria, AT
-
- P-42 Introduction to the project “Determination of the uncertainty of X-ray computed tomography measurements of geometric features by simulation – CTSimU3**
René Laquai, Physikalisch-Technische Bundesanstalt, Braunschweig, DE
-
- P-43 Single Fiber Analysis of recycled Carbon Fiber Composites**
Benedikt Boos, Leibniz-Institut für Verbundwerkstoffe DE
-

Thursday, February 12

08:30 am – 09:00 am: Keynote (II)

Keynote (II)

Chair: Aloisi V., Plank B.

Boosting quality - CT in various applications at Bosch

Jochen Butzer, Corporate Research, Robert Bosch GmbH, Renningen, DE

09:00 am – 09:40 am: Roboter and Inline CT

Roboter an Inline CT

Chair: Aloisi V., Plank B.

Integration of Inline Computed Tomography into Industry 4.0 Architectures using OPC UA

Jonas Kühne, VisiConsult X-ray Systems & Solutions GmbH, DE

Virtual Detector FDK for twin robotic CT reconstruction

Alexander Jung, Deggendorf Institute of Technology, DE

High-Resolution Inspection of Large-Scale Objects utilizing RoboCT

Markus Eberhorn, Fraunhofer IIS, DE

10:00 am – 10:30 am: Break

10:30 am – 11:50 pm: Inline CT and Tools for CT

Inline CT and Tools for CT

Chair: Heinzl C., Weinberger P.

Towards Supporting Non-Destructive Testing Inspectors with a Multi-Modal Generative AI Copilot

Pia Carina Pickmann, Chair of Intelligence in Quality Sensing, Laboratory for Machine Tools and Production Engineering (WZL-IQS) of RWTH Aachen University, DE

Exploring 4D XCT Battery Discharging through Immersive Analytics

Alexander Gall, University of Passau, DE

VisGFX - A Visual Guidance Framework for XCT Simulation

Anja Heim, Fraunhofer Institute of Integrated Circuits IIS, DE

GEO-ASTRA: a toolbox for non-conventional XCT scanning and reconstruction

Joaquim Sanctorem, University of Antwerp, BEL

Cycloidal Acquisition for Inline Edge Illumination X-ray Phase Contrast Computed Tomography

Jitse Verstraete, University of Antwerp, BEL

12:10 pm – 01:10 pm: Lunch
01:10 pm – 02:30 am: Machine Learning

Machine Learning

Chair: Groeller E., Yosifov M.

RA-CT NeRF: Region Adaptive CT NeRF for Arbitrary-Scale Super-Resolution

Chaoyu Dong, Agency for Science, Technology and Research (A*STAR), SGP

Compensating Projection Interpolation Artifacts in Sparse-View CT using a Two-Stage CNN with learnable Upscaling

Ammar Alsaffar, Department of Computational Imaging Systems, ITI, University of Stuttgart, DE

Quantum Edge Detection on Industrial X-ray Data via Haar-Based Quantum Circuits

Anastasia Papadaki, Fraunhofer IIS-Institut für Integrierte Schaltungen IIS, DE

Machine learning quantitative cellular-level wood characterization with volumetric micro- and submicro-CT

Jannik Stebani, Fraunhofer-Institut IIS, DE

02:30 pm – 03:00 am: Break
03:00 pm – 04:40 pm: Material Characterization I

Material Characterization I

Chair: De Beenhouwer J., Höglinger-Rauscher M.

Assessing the potential of graph-based modelling for lightning damage in aerospace CFRP structures via high-resolution X-ray tomography

Mouad Saliji, DPHY, ONERA, FR

Advanced Fiber Breakage Parameter Calibration with X-ray Computer Tomography

Markus Wimmer, Plastic Innovation GmbH, AT

X-ray Computed Tomography for Modal and NDT Analysis of Cantilever Beams

Daniel Vavrik, Institute of Theoretical and Applied Mechanics, CZE

Can a Medical Imaging X-ray Tube Used for Radial Aviation Tire Inspection?

Zhicong Yu, UC Santa Cruz, USA

06:00 pm: Conference Dinner at Josef Linz

Friday, February 13

08:30 am – 09:00 am: Keynote (III)

Keynote (III)

Chair: Bartscher M., Heupl S.

GIANT EYE - Key Technology for tomorrow's products

Michael Salamon, Fraunhofer Institute for Integrated Circuits (IIS), EZRTy, DE

09:00 am – 10:20 am: Material Characterization II

Material Characterization II

Chair: Bartscher M., Heupl S.

Analysis of moisture absorption index of foods by X-ray CT for texture evaluation

Kento Imani, The University of Tokyo, JapanImani, JPN

From X-Ray computed microtomography to 3D printing

Rožle Repič, Slovenian National Building and Civil Engineering Institute (ZAG), SVN

Instance segmentation and statistical analysis of large-field-of-view X-ray computed tomography data of fiber weave structures

Benedikt Boos, Leibniz-Institut für Verbundwerkstoffe GmbH, DE

Towards X-ray-based inspection of corrosion in maritime infrastructure

Joaquim G. Sanctorem, University of Antwerp, BEL

10:20 am – 10:50 am: Break

10:50 am – 11:50 pm: Reconstruction

Reconstruction

Chair: Papazoglou A, Kastner J.

X-ray Phase-contrast CT Reconstruction by Solving Poisson Equation with Boundary Condition from Absorption CT

Wataru Yamamoto, The University of Tokyo, JPN

Assessment of Beam-Hardening Correction Methods for Ordered-subset Simultaneous Algebraic Reconstruction Technique

Kaojie Yue, Politecnico di Milano, IT

Multi-view Diffusion Model with Gaussian Splatting in Projection Domain for Limited Angle Reconstruction

Xingyu Liu, University of Stuttgart, DE

Dual-Energy Computed Tomography reconstruction of multi-material objects via a SWIN Transformer architecture

Saurabh Jha, Department of Mechanical Engineering, KU Leuven, BEL

12:10 pm:

Closing and iCT2027 Preview and Lunch

Social program

Dinner and Exhibition

Tuesday, February 10

06:00 pm

The University of Applied Sciences Upper Austria cordially invites you to visit the sponsor exhibition and learn about the latest developments in CT components, devices, and software at the Linz campus. The exhibition will be accompanied by a delicious dinner where you can enjoy interesting conversations with sponsors and guests.

Dinner and Poster Viewing

Wednesday, February 11

bus departure: 03:30 pm

During the poster session, you are cordially invited to enjoy an traditional Brettjause. It's the perfect atmosphere for networking and getting to know new people from the field of industrial computed tomography at the Wels campus. Afterwards, there will be an opportunity to take a guided tour of the H2 research center in Wels. Only 50 slots are available!

A shuttle bus will take you from the Linz campus to the Wels campus and back again. Return transfer by bus: 08:00 pm.



Conference Dinner at Josef Linz

Thursday, February 12

06:00 pm

Josef Linz address:

Landstraße 49, 4020 Linz

Walking distance: 25 min

Bus transportation with lines: 12, 45a, 46,

Josef – the meeting place in Linz.

In the heart of the city, Josef combines modern tavern culture with a stylish ambience. Enjoy regional specialties, creative tapas, and fine wines in a relaxed atmosphere – a place for enjoyment and encounters.



Important information

Parking

The closest parking facility is in the underground parking at Semmelweisstraße, which costs around €18,- per day. There is also a paid short-stay parking zone on Semmelweisstraße in Linz (often 30/90 minutes, please note the times), which is in operation Monday -Friday 08:00am - 06:30pm and Saturday 08:00am - 12:00pm.

Currency and Banking

The official currency of Austria is Euro (EUR, €). Therewith, Austria belongs to the 19 European countries that use the common European money. Banks are located in the surrounding of the congress area.

Opening hours (depend on the Bank):

Monday - Friday: 09:00am - 12:00pm, 02:00pm - 03:00pm. Saturday and Sundays: closed

ATM

You may find ATMs within a bank or right outside of the bank building. Entering a bank during closing hours is usually possible with bank cards with a chip. ATMs closest to the congress area:

FH Upper Austria, Linz Campus,
Outside Entrance Building A

Power and Electrical Plugs

Electricity is 220-230V, 50 Hz. - Austrian plugs have two round pins.

Emergency Numbers

European Emergency Number: (+43) 112
Austrian Police Department: (+43) 133
Austrian Ambulance: (+43) 144
Austrian Fire Department: (+43) 122

Climate and Clothing

February in Austria is one of the coldest months of the year. Usually we have less than 0°C|32°F. During the day it may rain, in the night it may freeze. Often it is snowing. So don't forget to bring warm clothing, winter jackets and boots.

Store Opening Hours

The opening hours of shops vary in Austria. Mostly though, the opening hours during the week are: Monday - Friday, from 09:00 am - 06:00 pm and on Saturday they are open until 01:00 pm or 05:00 pm.

Smoking area

No smoking in public buildings (e.g. airports, train stations, schools, universities, government administration buildings) and on public transport (e.g. trains). At the conference venue you may smoke in the inner courtyard of the Linz Campus. In general smoking is not allowed in restaurants, bars and cafes.

Pharmacies in Linz

Prinz Eugen Apotheke

[https://www.prinz-eugen-apo.at/Prinz-Eugen-Straße 10b/2a, 4020 Linz](https://www.prinz-eugen-apo.at/Prinz-Eugen-Straße%2010b/2a,4020Linz)
Phone: +43 (0)732 601500
Open: Mon-Fri: 08:30am - 06:00pm,
Sat 08:30am - 12:30pm

Cabs

Taxi 6969 | +43 (0)732 6969

Taxi 2244 | +43 (0) 732 2244



Announcement

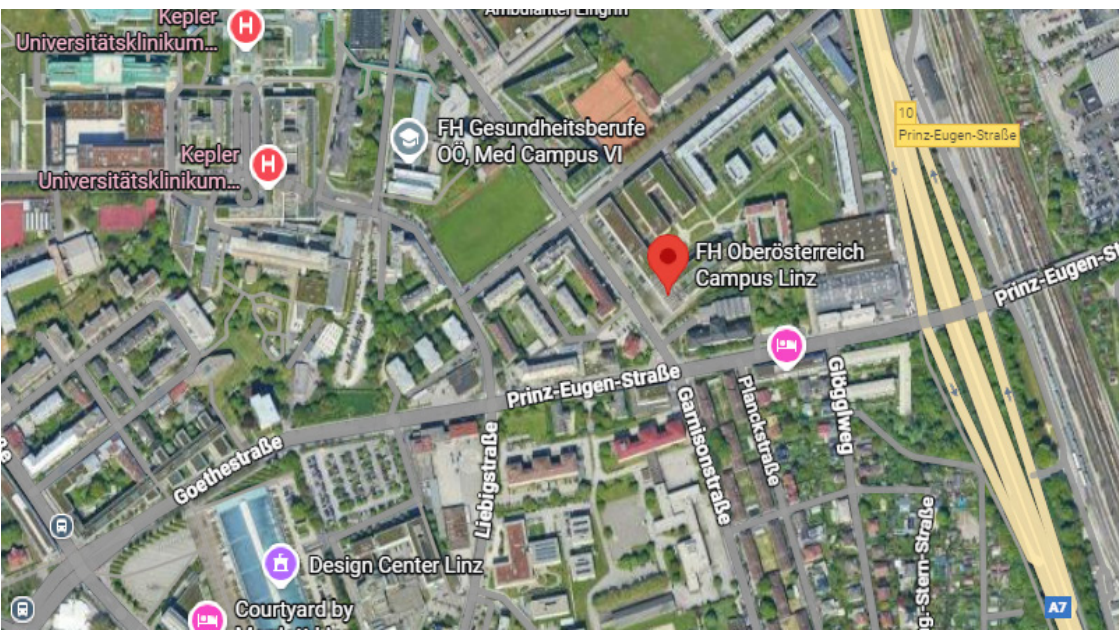
16th iCT Conference 2027

Grenoble | France

17th iCT Conference 2028

Linz | Austria

Map:



Visit us at Linz Campus.



FH Upper Austria Linz Campus



Research

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