



**28th INTERNATIONAL CONFERENCE ON MEDICAL IMAGE
COMPUTING AND COMPUTER ASSISTED INTERVENTION**
23-27 September 2025 • DAEJEON, REPUBLIC OF KOREA
From Concept to Clinical | Pan-Asian Connection

The 4th Workshop on Computational Mathematics Modeling in Cancer Analysis

DCC1- Room 2F-204

Session 1 Title: Keynote Session

Session Chairs: Chao Li, Wenjian Qin, Jia Wu, Nazar Zaki

Time	Paper Title
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13:30-13:45 Open Remarks

13:45-14:20	Keynote: Computational Modeling of Breast Cancer Images: From Heuristics to Biology Prof. Shandong Wu, University of Pittsburgh
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14:20-14:55	Keynote: Towards Generalizable Multi-Omics Modeling for Radiation Therapy Prof. Jing Cai, Hong Kong Polytechnic University
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14:55-15:30	Keynote: Cone-beam CT Intelligent Imaging for Radiation Oncology Prof. Tianye Niu, University of Science and Technology of China
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15:30-16:00 Coffee Break

Session 2 Title: Oral Session

Session Chairs: Wenjian Qin

Time	Paper Title
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16:00-16:20	Oral 1 - Jonas Weidner A Lightweight Optimization Framework for Estimating 3D Brain Tumor Infiltration
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16:20-16:40	Oral 2 - Valentin Septiers A data-driven approach to optimise parameters of a computational digital twin model in response to SBRT on MR-Linac
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16:40-17:00	Oral 3 - Anran Liu, Xiaofei Wang Score-based Diffusion Model for Unpaired Virtual Histology Staining
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17:00-17:20	Oral 4 - Xueren Zhang CT Image Segmentation Using Frequency Domain Feature-Assisted Selective Long Memory State Space Model
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17:20-17:40	Oral 5 - Xidong Wu, Hao Chen OG-SAM: Enhancing Multi-Organ Segmentation with Organogenesis-Based Adaptive Modeling
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17:40-18:00	Oral 6 - Guantian Huang Region-aware Diagnosis of Clinically Significant Prostate Cancer via Semi-supervised Learning Segmentation
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