

International Workshop on Intelligent Image Processing

August 11-12, 2023 Ritsumeikan University, Shiga, Japan



General Chair

Yen-Wei Chen (Professor, Ritsumeikan University, Japan)

Co-Program Chairs

Jian Cheng (Professor, Chinese Academy of Sciences, China)

Layth Sliman (Professor, EFREI, France)

Xiangyan Zeng (Professor, Fort Valley State University, USA)



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Epoch Hall, BKC, Ritsumeikan University, Shiga, Japan https://media.ritsumei.ac.jp/iipl/iwiip23-index.html

Program and event summary

Aug. 11, 2023

9:00-9:30	Registration
9:30-9:40	Opening Remark
	Yen-Wei Chen
	General Chair, Professor of Ritsumeikan University, Japan
	Remark
	Shinichi Tamura
	Emeritus Professor, Osaka University, Japan
9:40-10:20	Invited Talk 1
	Chair: Yen-Wei Chen (Ritsumeikan University, Japan)
	Efficient Intelligent Computing on Edge Devices
	Jian Cheng
	Professor, Chinese Academy of Science, China
10:20-10:56	Session 1
	Chair: Xianhua Han (Associate Professor, Yamaguchi University, Japan)
	Interference Tolerant Sub-GHz Band Wireless Sensor Networks
	Shusuke Narieda
	Associate Professor, Mie University, Japan
	A Privacy-Preserving and Generalization Model for Medical Imaging
	Titinunt Kitrungrotsakul
	Associate Researcher, Zhejiang Lab, China

10:56-11:10	Coffee Break
11:00-12:30	Poster Session
	Students (14 poster presentations)
12:30-13:30	Lunch at Nadeshiko Restaurant
13:30-14:10	Invited Talk 2
	Chair: Yen-Wei Chen (Ritsumeikan University, Japan)
	The Future of Special Video Applications
	 The Future of Special Video Applications Katsuhisa Ogawa
	Visiting Professor, Osaka University of Arts, Japan
14:10-15:40	Session 2
11.10 10.10	Chair: Yutaro Iwamoto (Lecturer, Osaka Electro-Communication
	University, Japan)
	Hyperspectral Image Super Resolution and Reconstruction
	Xian-Hua Han
	Associate Professor, Yamaguchi University, Japan
	Accurate Segmentation of Medical Images via Deep Networks
	Rui Xu
	Associate Professor, Dalian University of Technology, China
	Visual Perception for Intelligent Manufacturing
	Guifang Duan
	Associate Professor, Zhejiang University, China
	 Generating Quadrat Images for Identifying Sea Bottom Matrices
	using GAN
	Shinya Nozaki
	Associate Professor, University of the Ryukyus, Japan
	Federated Active Learning for Multicenter Collaborative Disease
	Diagnosis
	Xing Wu
	Professor, Shanghai University, China
15:40-15:50	Coffee Break

15:50-17:40	Session 3
	Chair: Rui Xu (Dalian University of Technology China)
	Medical Image Analysis and Its Clinical Application Based on Data
	Science
	Tomoko Tateyama
	Associate Professor, Fujita Health University, Japan
	Digital Twin and 3D Scene Virtual Tour Explorer Using Artificial
	Intelligence
	Truc-Hung Ngo
	Principal Scientist, Vizzio Technologies PTE. LTD, Singapore
	Endoscopic Navigation System for Minimally Invasive Skull Base
	Surgery
	Danni Ai
	Associate Professor, Beijing Institute of Technology, China)
	Research on Intelligent Diagnosis Model of Gastrointestinal
	Diseases
	Xu Qiao
	Associate Professor, Shandong University, China
	Disentanglement of Latent Space and Improved Domain
	Transformation
	Masataka Seo
	Associate Professor, Osaka Institute of Technology, Japan
	The Development of Infant Brain Ventricle Segmentation System
	Using Deep Learning
	Yutaro Iwamoto
	Lecturer, Osaka Electro-Communication University, Japan
17:40-17:45	Closing Remark
	Layth Sliman (Professor, EFREI, France)
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Aug. 12, 2023 Free Discussion

Poster Presentation (Aug. 11, 2023 11:00-12:30)

P1	Noise Search Method for Improving Control Performance of Image Transformation in Diffusion Model Toshiki HAZAMA (Ritsumeikan University, Japan)
P2	Weakly-Supervised and Unsupervised Liver Lesion Detection
	He LI (Ritsumeikan University, Japan)
P3	Efficient Multi-phase CT Image Segmentation Using Unsupervised Domain Adaptation Swathi ANANDA (Ritsumeikan University, Japan)
P4	OA-GAN: Organ-Aware Generative Adversarial Network for Synthesizing Contrast-enhanced Medical Images Yulin YANG (Ritsumeikan University, Japan)
P5	Accurate Cephalometric Landmark Detection Based on Knowledge Distillation Yu SONG (Ritsumeikan University, Japan)
P6	Semi-Supervised Learning for Postoperative Early Recurrence Prediction of Hepatocellular Carcinoma Using Histopathological Image Gan ZHAN (Ritsumeikan University, Japan)
P7	Segmentation of Infant Brain Ventricles with Hydrocephalus in MRI
	Hikari MAEDA (Ritsumeikan University, Japan)
P8	A Module Selection-Based Approach for Efficient Skeleton Human Action Recognition
	Shurong CHAI (Ritsumeikan University, Japan)
P9	Multimodal Representation Learning with Homogeneous and Diverse Constraints Using Multi-emotional Audiovisual Features for Depression Detection Shiyu TENG (Ritsumeikan University, Japan)
P10	A Genotype-Guided Radiomics Signature Framework for Recurrence Prediction of Non-Small Cell Lung Cancer Yang AI (Ritsumeikan University, Japan)
P11	Fine-tuned SAM for Glioma Segmentation on Multimodal Brain MR Images
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P12	Modality-Invariant Representation Learning for Accurate Hand Gesture Recognition Using Color and Depth Images Masaya OKANO (Ritsumeikan University, Japan)
P13	Automatic Al-Based Segmentation and Holographic Interactive Visualization of Pulmonary Airways Liang LYU (Ritsumeikan University, Japan)
P14	Semi-supervised Medical Image Classification based on Contrastive Learning
	Jihong HU (Ritsumeikan University, Japan)