

2024 IEEE Coupling of Sensing & Computing in AIoT Systems (CSCAIoT 2024)

**Hong Kong
13 May 2024**



**IEEE Catalog Number: CFP24VI3-POD
ISBN: 979-8-3503-6339-5**

**Copyright © 2024 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP24VI3-POD
ISBN (Print-On-Demand):	979-8-3503-6339-5
ISBN (Online):	979-8-3503-6338-8

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

2024 IEEE Coupling of Sensing & Computing in AIoT Systems (CSCAIoT) CSCAIoT 2024

Table of Contents

Paper Session I

EarDA: Towards Accurate and Data-Efficient Earable Activity Sensing	1
<i>Shengzhe Lyu (City University of Hong Kong, Hong Kong), Yongliang Chen (City University of Hong Kong, Hong Kong), Di Duan (City University of Hong Kong, Hong Kong), Renqi Jia (City University of Hong Kong, Hong Kong), and Weitao Xu (City University of Hong Kong, Hong Kong)</i>	
AdaFlow: Non-blocking Inference with Heterogeneous Multi-modal Mobile Sensor Data	8
<i>Fengmin Wu (Northwestern Polytechnical University, China), Sicong Liu (Northwestern Polytechnical University, China), Bin Guo (Northwestern Polytechnical University, China), Xiaocheng Li (Northwestern Polytechnical University, China), Yuan Gao (Northwestern Polytechnical University, China), and Zhiwen Yu (Northwestern Polytechnical University and Harbin Engineering University, China)</i>	
Accelerating Distributed Tracing in Serverless Computing Using Differential Tracing	10
<i>Yuhan Yang (Shanghai Jiao Tong University) and Xingda Wei (Shanghai Jiao Tong University)</i>	
Are You Being Tracked? Discover the Power of Zero-Shot Trajectory Tracing with LLMs!	13
<i>Huanqi Yang (City University of Hong Kong), Sijie Ji (The University of Hong Kong), Rucheng Wu (City University of Hong Kong), and Weitao Xu (City University of Hong Kong)</i>	

Papers Session II

Low-latency MLLM Inference with Spatiotemporal Heterogeneous Distributed Multimodal Data ...	19
<i>Xiangrui Xu (Northwestern Polytechnical University, China), Sicong Liu (Northwestern Polytechnical University, China), Zhiwen Yu (Northwestern Polytechnical University and Harbin Engineering University, China), Lehao Wang (Northwestern Polytechnical University, China), and Bin Guo (Northwestern Polytechnical University)</i>	
Poster: Research on multi-feature fusion false review detection based on DistilBERT-BiLSTM-CNN	21
<i>Jing Zhang (Xi'an University of Science and Technology, China) and Ke Huang (Xi'an University of Science and Technology, China)</i>	
Poster: Enabling Environment-Aware And Task-Oriented Communication for Low-Latency Edge SLAM	23
<i>Yao Zhang (Northwestern Polytechnical University)</i>	

Author Index 25