Di Duan

Research Interests: Mobile Computing | Human-Computer Interaction | Deep Learning | Wearable Computing

iteseuren interests	Those comparing framan comparer interaction [beep learning] (tear able com	putting	
Education			
City University of Hong K)20 – Jul. 202	
Ph.D. in Computer Science		ng SAR, Chin	
	<u>Xu</u> , co-supervised by <u>Prof. Xiaohua Jia</u> . I also work closely with <u>Dr. Tianxing Li</u> at MSU.	19 Nov 2010	
M.Sc. in Electronic Engine		Aug. 2018 – Nov. 2019 Hong Kong SAR, China	
Harbin Engineering Univ		Aug. 2014 – Aug. 2018	
		Harbin, Heilongjiang, China	
Publications			
[MobiSys'24] F ² Key: Dyn Interaction	namically Converting Your Face into a Private Key Based on COTS Headphones for	Reliable Voice	
Di Duan, Zehua Sun, Tao M	Ni, Shuaicheng Li, Xiaohua Jia, Weitao Xu, Tianxing Li		
		2024	
[IMWUT/UbiComp'24] E	arSE: Bringing Robust Speech Enhancement to COTS Headphones		
Di Duan, Yongliang Chen,	Weitao Xu, Tianxing Li		
		2024	
[PerCom'23] EMGSense:	A Low-Effort Self-Supervised Domain Adaptation Framework for EMG Sensing		
Di Duan, Huanqi Yang, Gu	iohao Lan, Tianxing Li, Xiaohua Jia, Weitao Xu		
	Best Paper Award	(1/159) , 2023	
[MobileHCI'24] Medusa3	D: The Watchful Eye Freezing Illegitimate Users in Virtual Reality Interactions		
Aochen Jiao*, Di Duan* (*	[*] co-first authors), Weitao Xu		
		2024	
[MobiCom'24] RF-Egg: A	An RF Solution for Fine-Grained Multi-Target and Multi-Task Egg Incubation Sensing		
Zehua Sun, Tao Ni, Yonglia	ang Chen, Di Duan , Kai Liu, Weitao Xu	2024	
		2024	
	e Key Establishment Scheme for LoRa-enabled IoV Communications		
Huanqi Yang, Di Duan , Ho	ongbo Liu, Chengwen Luo, Yuezhong Wu, Wei Li, Albert Y. Zomaya, Linqi Song, Weitao Xi	u 2024	
		2024	
	ve-based Few-Shot Online Handwritten Signature Verification		
Mingda Han, Huanqi Yang,	, Tao Ni, Di Duan , Mengzhe Ruan, Yongliang Chen, Jia Zhang, Weitao Xu	2023	
		2025	
,	owards Accurate and Data-Efficient Earable Activity Sensing		
Shengzhe Lyu, Yongliang C	Chen, Di Duan , Renqi Jia, Weitao Xu	2024	
Awards		2024	
		Elsevier, 2023	
Elsevier Monetary Award		rCom'23, 2023	
Mark Weiser Best Paper	Award		
Postgraduate Studentship	n de la companya de l	CityU, 2020	
Skills			
Languages:	Python, Matlab, Java		
Technologies:	Signal Processing (audio, EMG, IMU, gaze, mmWave), Deep Learning, Transfer Learning	g	
Platform & Framework:	Pytorch, Tensorflow, Arduino, Android	-	

Tools: LaTeX, Draw.io, Powerpoint

Professional Services		
Organizing Committee:		
2024:	Publicity Chair of BodySys Workshop (MobiSys)	
Artifact Evaluation Committee:		
2024:	MobiSys	
Conference Review:		
2024:	IPSN, IOTDI, ICDCS, DCOSS-IoT, SenSys	
2023:	IPSN	
Journal Review:		
2024:	Ad Hoc Networks, TMC	
Reference		
Xiaohua Jia (Ph.D. Co-advisor)		IEEE Fellow, ACM Distinguished Member
Chair Professor, Head of Department of Computer Science		City University of Hong Kong
Email: csjia@cityu.edu.hk		
Weitao Xu (Ph.D. Advisor)		IEEE Senior Member
Assistant Professor		City University of Hong Kong
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Tianxing Li (Close Collaborator)		
Assistant Professor		Michigan State University
Email: litianx2@msu.edu		