### The 22nd International Symposium on Mobile Ad **Hoc Networking and Computing** July 26-29, 2021-Shanghai, China

#### ACM Mobihoc: International Symposium on Theory, Algorithmic Foundations,

Introduction

and Protocol Design for Mobile Networks and Mobile Computing will be held during July 26-29, 2021. It will be held in Shanghai, China. MobiHoc is a premier international symposium dedicated to addressing challenges in dynamic networks and computing. MobiHoc 2021 will feature a highly selective technical program, multiple distinguished keynote addresses, and an exciting panel. In addition, it includes

workshops that are focused on areas of emerging interest. • URL: <a href="https://www.sigmobile.org/mobihoc/2021/">https://www.sigmobile.org/mobihoc/2021/</a>

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**Registration Type** 

Student- Full Conference

Online ACM/SIG Members

Online ACM/SIG Members (Author)

Online Non-ACM/SIG Members (Author)

Online Non-ACM/SIG Members

1 Day

Online Student

ACM/SIG Members- Full Conference(Author)

Non-ACM/SIG Members- Full Conference(Author)

Non-ACM/SIG Members- Full Conference

Chair:

Co-chair:

**EPFL** 

# **Program Schedule**

**Industry Keynote** 

July 26		July 27	July 28
8:00am-8:30am Registration		8:00am-8:15am Registration	8:00am-8:30am Registration
8:30am-12:00pm Workshop		8.00am-6.15am Registration	
		8:15am-9:00am Opening Remarks	8:30am-10:00am Industry Track Session: Keynote 1: Alibaba Keynote 2: Ting Cao (MSRA)
		9:00am-10:00am Keynote 1: P. R. Kumar(TAMU)	
		10:00am-11:00am Keynote 2: Kang Shin (UMich)	10:00am-10:30am Break
			10:30am-12:00pm  Session 4: Queuing  Job Dispatching Policies for Queueing Systems with Unknown Service Rates  Beyond Scaling: Calculable Error Bounds of the Power-of-Two-
		11:00am-11:15am Break	
		11:15am-12:45pm Session 1: Mobile device and RFID Real-Time Deep Video Analytics on	

Mobile Devices

Fingerprinting

3:00pm-5:00pm

Communication

**Bandits** 

12:45pm-1:45pm Lunch 1:45pm-2:45pm Keynote 3: Matt Grossglauser (EPFL) 2:45pm-3:00pm Break

Functions and Queueing Delay

· Robust Multi-Agent Multi-Armed

· Accelerating Distributed Online

Meta-Learning via Multi-Agent

Collaboration under Limited

· GT-STORM: Taming Sample,

Communication, and Memory

Complexities in Decentralized Non-

· Rotation Sensing Using Passive RFID

· The Tags Are Alright: Robust Large-

Scale RFID Clone Detection Through

Federated Data-Augmented Radio

Commodity WiFi Device Channel Randomization Session 2: Learning algorithms 3:00pm-3:30pm Break · Learning-NUM: Network Utility Maximization with Unknown Utility

Channels

Convex Learning Registration Early Bird (by June 26, 2021) ACM/SIG Members- Full Conference \$800

· Joint Update Rate Adaptation in Choices Mean-Field Model in Multiplayer Cloud-Edge Gaming Heavy-Traffic · User Distributions in Shard-based Services: Spatial Geometry and Performance Tradeoffs Blockchain Network: Queueing Modeling, Game Analysis, and Protocol Design 12:00pm-1:30pm Lunch 12:00pm-1:30pm Lunch 1:30pm-3:00pm Session 7: Emerging topics 1:30pm-3:00pm · SkyHaul: An Autonomous Gigabit Session 3: Privacy and security Network Fabric In The Sky · MultiAuth: Enable Multi-User · Crowdfunding with Strategic Authentication with Single Pricing and Information Disclosure · uScope: a Tool for Network · Man-in-the-Middle Attack Managers to Validate Delay-Based Resistant Secret Key Generation via · DeepLoRa: Fingerprinting LoRa Devices at Scale Through Deep Learning and Data Augmentation 3:30pm-5:30pm Session 5: Age-of-information · Minimizing Age-of-Information in Heterogeneous Multi-Channel Systems: A New Partial-Index Approach · Minimizing Age of Information via Scheduling over Heterogeneous

Battle between Rate and Error in

· An Online Learning Approach to

Optimizing Time-Varying Costs of

Minimizing Age of Information

3:00pm-3:30pm Break 3:30pm-5:30pm Session 8: Learning for Wireless Networks · DeepBeam: Deep Waveform Learning for Coordination-Free Beam Management in mmWave · MmWave Codebook Selection in Rapidly-Varying Channels via Multinomial Thompson Sampling · Neuro-DCF: Design of Wireless MAC via Multi-Agent Reinforcement Learning Approach Weak Signal Detection in 5G+ Systems: A Distributed Deep

Learning Framework

Regular Rate (after June 27)

\$825

\$825

\$975

\$975

\$500

\$400

\$150

\$150

\$200

\$200

\$50

8:00am-8:30am Registration

9:30am-10:00am Break

Session6: Edge computing · Task Offloading with Uncertain

Meta-Learning for Fast and

Continual Edge Learning

10:00am-12:00pm

**Processing Cycles** 

**Keynote 5: Muriel Medard (MIT)** 

· Inexact-ADMM Based Federated

· An Online Mean Field Approach

for Hybrid Edge Server Provision

8:30am-9:30am

## Venue

\$800

\$875

\$875

\$400

\$400

\$150

\$150

\$200

\$200

\$50





documents providing your information. https://www.sigmobile.org/mobihoc/2021/2021%20Shanghai%20Jiaotong %20University%20Hotel%20Reservation%20Letter%20in%20English.doc LOCATION: 15 minutes from Shanghai Hongqiao Airport (SHA), 45 minutes from

Pudong International Airport (PVG). Easily accessible from the Yan An

elevated highway. More information about Radisson Collection Hotel can be found here: https://www.radissonhotels.com/en-us/hotels/radisson-collectionshanghai-xing-quo

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Latest update: July 03, 2021

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