Reading list for Frontiers of Future Mobile Internet

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# MobiCom 2017

1. WEBee: Physical-Layer Cross-Technology Communication via Emulation
2. Stateful Inter-Packet Signal Processing for Wireless Networking
3. Pose Information Assisted 60 GHz Networks: Towards Seamless Coverage and Mobility Support
4. MagneComm: Magnetometer-based Near-Field Communication
5. PassiveVLC: Enabling Practical Visible Light Backscatter Communication for Battery-free IoT Applications
6. ReflexCode: Coding with Superposed Reflection Light for LED-Camera Communication
7. Pulsar: Towards Ubiquitous Visible Light Localization
8. RF-Echo: A Non-Line-of-Sight Indoor Localization System Using a Low-Power Active RF Reflector ASIC Tag
9. Minding the Billions: Ultra-wideband Localization for Deployed RFIDs
10. RIO: A Pervasive RFID-based Touch Gesture Interface
11. Cardiac Scan: A Non-contact and Continuous Heart-based User Authentication System
12. Automating Visual Privacy Protection Using a Smart LED
13. Continuous Authentication for Voice Assistants
14. UIWear: Easily Adapting User Interfaces for Wearable Devices
15. TinyLink: A Holistic System for Rapid Development of IoT Applications

# INFOCOM 2017

1. Multihop Calibration for Mobile Sensing: k­hop Calibratability and Reference Sensor Deployment
2. RF­Scanner: Shelf Scanning with Robot­assisted RFID Systems
3. DBF: A General Framework for Anomaly Detection in RFID Systems
4. Traffic Aware Placement of Interdependent NFV Middleboxes
5. Surviving Screen­off Battery through Out­of­band Wi­Fi Coordination
6. iGuard: A Real­Time Anti­Theft System for Smartphones
7. ER: Early Recognition of Inattentive Driving Leveraging Audio Devices on Smartphones
8. Every Pixel Counts: Fine­Grained UI Rendering Analysis for Mobile Applications
9. Context­Aware Data Quality Estimation in Mobile Crowdsensing
10. Is What You Measure What You Expect? Factors Affecting Smartphone­Based Mobile Network Measurement
11. Detecting On­Body Devices Through Creeping Wave Propagation
12. FitCoach: Virtual Fitness Coach Empowered by Wearable Mobile Devices
13. LightTouch: Securely Connecting Wearables to Ambient Displays with User Intent
14. On Human Mobility Predictability Via WLAN Logs
15. iType: Using Eye Gaze to Enhance Typing Privacy

# SIGCOMM 2017

1. NFP: Enabling Network Function Parallelism in NFV
2. NFVnice: Dynamic Backpressure and Scheduling for NFV service chains
3. WiFi Goes to Town: Rapid Picocell Switching for Wireless Transit Networks
4. Quantitative Network Monitoring with NetQRE
5. Drone Relay for Battery Free Networks

# NSDI 2017

1. Stateless Network Functions: Breaking the Tight Coupling of State and Processing
2. Facilitating Robust 60 GHz Network Deployment By Sensing Ambient Reflectors
3. FM Backscatter: Enabling Connected Cities and Smart Fabrics
4. VFP: A Virtual Switch Platform for Host SDN in the Public Cloud
5. Pytheas: Enabling Data-Driven Quality of Experience Optimization Using Group-Based Exploration-Exploitation
6. AdaptSize: Orchestrating the Hot Object Memory Cache in a Content Delivery Network
7. Improving User Perceived Page Load Times Using Gaze

# IPSN 2017

1. 3D Through-Wall Imaging with Unmanned Aerial Vehicles Using WiFi
2. Fast and Robust GPS Fix Using One Millisecond of Data
3. Calibration-free Network Localization with Non-Line-of-Sight Ultra-Wideband Measurements
4. SurfaceVibe: Vibration-Based Tap & Swipe Tracking on Ubiquitous Surfaces
5. PitchIn: Eavesdropping via Intelligible Speech Reconstruction using Non-Acoustic Sensor Fusion

# UbiComp 2017

1. Gazture: Design and Implementation of a Gaze based Gesture Control System on Tablets
2. Ball Speed and Spin Estimation in Table Tennis using a Racket-mounted Inertial Sensor
3. Devices and Data and Agents, Oh My: How Smart Home Abstractions Prime End-User Mental Models
4. IndoTrack: Device-Free Indoor Human Tracking with Commodity Wi-Fi
5. Gain Without Pain: Accurate WiFi-based Localization with Fingerprint Spatial Gradient
6. Inferring Person-to-person Proximity Using WiFi Signals
7. Smart Eye Mask: Sleep Sensing System Using Infrared Sensors
8. Does this App Really Need My Location? Context-Aware Privacy Management for Smartphones
9. Logging you, Logging me: A Replicable Study of Privacy and Sharing Behaviour in Groups of Visual Lifeloggers
10. Robust indoor localization across smartphone models with ellipsoid features from multiple RSSIs