

# HOTMOBILE 2018

FEBRUARY 12 -13, 2018 | TEMPE, ARIZONA

## February 12, 2018

8.00 AM	Registration Opens and Breakfast (The Abbey Meeting Room at Tempe Mission Palms Hotel)
8.45 AM – 9.00 AM	Welcome Message
9.00 AM – 10.30 AM	<b>Keynote I:</b> Future of Mental Health Sensing on College Campuses (Andrew Campbell, Dartmouth)
10.30 AM - 10.50 AM	Coffee Break
10.50 AM - 12.00 PM	<b>SESSION 1: APPLICATIONS USING NEW HARDWARE</b> (Chair: Sharad Agarwal) <ul style="list-style-type: none"><li>• Applications and Challenges of Real-time Mobile DNA Analysis</li><li>• Creating the Perfect Illusion: What will it take to Create Life-Like Virtual Reality Headsets?</li><li>• Exploring Eye Adaptation in Head-Mounted Display for Energy Efficient Smartphone Virtual Reality</li></ul>
12.00 PM - 1.15 PM	Lunch
1.15 PM - 2.25 PM	<b>SESSION 2: AUGMENTATION</b> (Chair: Heather Zheng) <ul style="list-style-type: none"><li>• Augmenting Self-Driving with Remote Control: Challenges and Directions</li><li>• CARS: Collaborative Augmented Reality for Socialization</li><li>• Unsupervised Workflow Extraction from First-Person Video of Mechanical Assembly</li></ul>
2.25 PM - 2.45 PM	<b>SESSION 3: NEW APPLICATIONS OF INERTIAL SENSING AND BEYOND</b> (Chair: Jacob Sorber) <ul style="list-style-type: none"><li>• VVRRM: Vehicular Vibration-based Heart RR-Interval Monitoring System</li><li>• Children Friendly Smart Phones: Detecting Children Users of Mobile Devices</li><li>• HappyFeet: Recognizing and Assessing Dance on The Floor</li><li>• UniverSense: IoT Device Pairing Using Heterogeneous Sensing Signals</li></ul>
4.15 PM - 5.45 PM	Poster and demo (Joshua Tree Meeting Room at Tempe Mission Palms Hotel)
6.30 PM	Banquet (Desert Botanical Garden, 1201 N Galvin Pkwy, Phoenix, AZ 85008)

## February 13, 2018

8.00 AM - 9.00 AM	Breakfast
9.00 AM - 10.30 AM	<b>Keynote II:</b> Meeting Future Needs in Mobile Computing (Mike Polley, Samsung)
10.30 AM - 10.50 AM	Coffee Break
10.50 AM - 12.00 PM	<b>SESSION 4: WEB</b> (Chair: Mark Corner) <ul style="list-style-type: none"><li>• Remote-Control Caching: Proxy-based URL Rewriting to Decrease Mobile Browsing Bandwidth</li><li>• Just Do It: Fast and Easy Mobilization of Spot Tasks in Web-based Enterprise Applications</li><li>• How Mobile Apps Violate the Behavioral Policy of Advertisement Libraries?</li></ul>
12.00 PM - 1.15 PM	Lunch
1.15 PM - 2.25 PM	<b>SESSION 5: CAMERAS</b> (Chair: Ardalan Amiri Sami) <ul style="list-style-type: none"><li>• Characterizing the Reconfiguration Latency of Image Sensor Resolution on Android Devices</li><li>• Adversarial Localization against Wireless Cameras</li><li>• A case for temperature-driven task migration to balance energy efficiency and image quality of vision processing workloads</li></ul>
2.25 PM - 2.45 PM	Coffee Break
2.45 PM - 3.45 PM	<b>Invited Talk:</b> Delivering the Mobile Web to the Next Billion Users (Ben Greenstein, Google)
3.50 PM - 5.00 PM	<b>SESSION 6: PERFORMANCE AND EXPERIMENTATION</b> (Chair: Mirco Musolesi) <ul style="list-style-type: none"><li>• Hermes: A Real Time Hypervisor for Mobile and IoT Systems</li><li>• iTrack: Tracking Indicator LEDs on APs to Bootstrap mmWave Beam Acquisition and Steering</li><li>• Sensibility Testbed: Automated IRB Policy Enforcement in Mobile Research Apps</li></ul>
5.00 PM	Closing Remarks