

LOCATION-ACQUISITION

- **#1) Indoor Localization on Smartphones Using Built-In Sensors and Map Constraints**
[<https://ieeexplore.ieee.org/document/8444074>]
ANDREA ELIAS TALLAROS
- **#2) Unsupervised indoor localization based on Smartphone Sensors, iBeacon and Wi-Fi**
[<https://ieeexplore.ieee.org/document/8559713>]
- **#3) SmartPDR: Smartphone-Based Pedestrian Dead Reckoning for Indoor Localization**
[<https://ieeexplore.ieee.org/document/6987239>]
DOMENICO RINALDO
- **#4) Improved Smartphone-Based Indoor Pedestrian Dead Reckoning Assisted by Visible Light Positioning**
[<https://ieeexplore.ieee.org/document/8581481>]
- **#5) Location Fingerprinting With Bluetooth Low Energy Beacons**
[<https://ieeexplore.ieee.org/document/7103024>]
- **#6) An Android-Based Mechanism for Energy Efficient Localization Depending on Indoor/Outdoor Context**
[<https://ieeexplore.ieee.org/document/7451199>]
CESARE GIANANTE
- **#7) Indoor Atlas**
[<http://www.indooratlas.com>]

LOCATION-BASED SERVICES & GEOFENCING

- **#8) Variable interval positioning method for smartphone-based power-saving geofencing**
[<https://ieeexplore.ieee.org/document/6666751/>]
- **#9) Geo-fencing: Geographical-fencing based energy-aware proactive framework for mobile devices**
[<https://ieeexplore.ieee.org/document/6245993>]

MAPS APIs

- **#10) Leaflet, an open-source JavaScript library for mobile-friendly interactive maps**
[<https://leafletjs.com>]
ALESSANDRO FREDA
- **#11) Mapbox**
<https://docs.mapbox.com>
- **#12) Grass GIS**
[<https://grass.osgeo.org>]

SPATIAL DATA ANALYSIS

- **#13) Mining Location Influence for Location Promotion in Location-Based Social Networks** (location intelligence)
[<https://ieeexplore.ieee.org/document/8539984>]
- **#14) Mobile Phone Data Analysis: A Spatial Exploration Toward Hotspot Detection**
[<https://ieeexplore.ieee.org/document/8299483>]
GIANLUCA SPILLER
- **#15) Effectiveness and Limitations of Social Networking Services in Disaster Responses: A Review 7 Years on from the 2011 Great East Japan Earthquake**
[<https://ieeexplore.ieee.org/document/8636369>]
DARIO FLORIS
- **#16) Twitter as a Source for Spatial Traffic Information in Big Data-Enabled Self-Organizing Networks**
[<https://ieeexplore.ieee.org/document/7925565>]
IRENE BASAGLIA
- **#17) Clustering Geo-tagged Tweets for Advanced Big Data Analytics**
[<https://ieeexplore.ieee.org/document/7584919>]

- **#18) PySAL: Python Spatial Analysis Library**

[<https://pysal.readthedocs.io/en/latest/>]

IGOR LUREVICI

- **#18b) GEOPANDAS**

[<http://geopandas.org>]

MICHELE NALLI

ACTIVITY-AWARENESS

- **#19) Segmentation and Recognition of Basic and Transitional Activities for Continuous Physical Human Activity**

[<https://ieeexplore.ieee.org/document/8668838>]

SALVATORE FIORILLA

- **#20) Soccer Player Activity Recognition by a Multivariate Features Integration**

[<https://ieeexplore.ieee.org/document/5597314>]

ALESSANDRO FABBRI

- **#21) Physical Activity Recognition From Smartphone Accelerometer Data for User Context Awareness Sensing**

[<https://ieeexplore.ieee.org/document/7476869/>]

- **#22) A Hybrid Hierarchical Framework for Gym Physical Activity Recognition and Measurement Using Wearable Sensors**

[<https://ieeexplore.ieee.org/document/8382216>]

LUCA D'AMBROSIO

- **#23) Activity Recognition Method for Home-Based Elderly Care Service Based on Random Forest and Activity Similarity**

[<https://ieeexplore.ieee.org/document/8621003>]

- **#24) Indoor Activity Detection and Recognition for Sport Games Analysis**

[<https://arxiv.org/pdf/1404.6413.pdf>]

MATTIA MANIEZZO

AFFECTIVE COMPUTING

- **#25) Towards an Affective Video Recommendation System**
[<https://ieeexplore.ieee.org/document/8480130>]
ALESSANDRO SERRA
- **#26) NotiMind: Utilizing Responses to Smart Phone Notifications as Affective Sensors**
[<https://ieeexplore.ieee.org/document/8048505>]
FEDERICA LA PIANA
- **#27) Affectiva**
<https://www.affectiva.com>
- **#27b) Predicting students' happiness from physiology, phone, mobility, and behavioral data**
<https://ieeexplore.ieee.org/document/7344575/>
- **#27c) Daily Stress Recognition from Mobile Phone Data, Weather Conditions and Individual Traits**
<https://arxiv.org/pdf/1410.5816.pdf>
- **#27d) Emotion Detection IoT enabled Edge-node for Citizen Security**
<https://ieeexplore.ieee.org/document/8767173/>

NEIGHBOUR-AWARENESS

- **#28) Data Connectivity and Smart Group Formation in Wi-Fi Direct Multi-Group Networks**
[<https://ieeexplore.ieee.org/document/8081783>]
- **#29) Context-Aware Configuration and Management of WiFi Direct Groups for Real Opportunistic Networks**
[<https://ieeexplore.ieee.org/document/8108752>]
- **#29b) Context-Aware Configuration and Management of WiFi Direct Groups for Real Opportunistic Networks**
<https://ieeexplore.ieee.org/document/8108752>
- **#30) Wi-Fi Aware Technology**

[<https://www.wi-fi.org/discover-wi-fi/wi-fi-aware>]

[<https://developer.android.com/guide/topics/connectivity/wifi-aware>]

- **#31) LTE Direct**
<https://www.qualcomm.com/invention/technologies/lte/direct>
- **#32) Bluetooth Low Energy (BLE) Mesh**
<https://www.bluetooth.com/blog/an-intro-to-bluetooth-mesh-part1/>
- **#32b) Enabling WiFi P2P-Based Pedestrian Safety App**
<https://arxiv.org/pdf/1805.00442.pdf>

CONTEXT MODELING AND REPRESENTATION

- **#33) ContextML: A light-weight context representation and context management schema**
[\[https://ieeexplore.ieee.org/document/5483753\]](https://ieeexplore.ieee.org/document/5483753)
- **#34) A Process Calculus for Context-Aware Systems**
[\[https://ieeexplore.ieee.org/document/6649772\]](https://ieeexplore.ieee.org/document/6649772)
- **#35) Amazon Neptune (graph database)**
[\[https://aws.amazon.com/neptune/\]](https://aws.amazon.com/neptune/)

CONTEXT-AWARE APPLICATIONS

- **#36) Context-Aware Smallworld Routing for Wireless Ad-Hoc Networks**
[\[https://ieeexplore.ieee.org/document/8306128\]](https://ieeexplore.ieee.org/document/8306128)
- **#37) Personalizing the Museum Experience through Context-Aware Recommendations**
[\[https://ieeexplore.ieee.org/document/7379271\]](https://ieeexplore.ieee.org/document/7379271)
ALFONSO CARRABS
- **#38) Energy-Aware and Context-Aware Video Streaming on Smartphones**
[\[https://ieeexplore.ieee.org/document/8885053\]](https://ieeexplore.ieee.org/document/8885053)
CARLO CANTAMAGLIA

- **#39) Healthy Routes in the Smart City: A Context-Aware Mobile Recommender**

[<https://ieeexplore.ieee.org/document/8106878>]

ANDREA LONGO

- **#40) CoAcT: A Framework for Context-Aware Trip Planning Using Active Transport**

[<https://ieeexplore.ieee.org/document/8480351>]

BIAGIO LANZARONE

- **#41) An Indoor Location-Aware System for an IoT-Based Smart Museum**

[<https://ieeexplore.ieee.org/document/7348638>]

ELENA COSTANZI

- **#41b) Context aware data aggregation in vehicular ad-hoc networks**

<https://ieeexplore.ieee.org/document/7502998>

- **#41c) A Context Aware Prototype Application for University Students and Lecturers**

<https://ieeexplore.ieee.org/document/8480167>

WEISONG LI

- **#41d) CAPRIO: Context-Aware Path Recommendation Exploiting Indoor and Outdoor Information**

<https://ieeexplore.ieee.org/document/8788833/>

PRIVACY AND SECURITY in CONTEXT-AWARE SYSTEMS

- **#42) SecureDroid: An Android security framework extension for context-aware policy enforcement**

[<https://ieeexplore.ieee.org/document/6927185>]

- **#43) Evaluating the Privacy Risk of Location-Based Services**

[<http://icapeople.epfl.ch/rshokri/papers/11FC.pdf>]

BRUNO BATTAGLIA

- **#44) NEXUS: Using Geo-fencing Services without revealing your Location**

[<https://ieeexplore.ieee.org/document/8534577>]

STEFANO BALLA

- **#45) Privacy Invasion through Smarthome IoT Sensing**
[<https://ieeexplore.ieee.org/document/8824933>]
[MARCO SILVESTRI](#)

- **#46) Show Me How You Move and I Will Tell You Who You Are**
<http://www.tdp.cat/issues11/tdp.a078a11.pdf>
[GIACOMO DI VAIRA](#)

- **#47) Inferring Social Ties in Academic Networks Using Short-Range Wireless Communications.**
<https://hal.archives-ouvertes.fr/hal-00853975/document>
[GIUSEPPE SANGIULIANO](#)

- **#48) Anonymous Usage of Location-Based Services Through Spatial and Temporal Cloaking.**
http://www.winlab.rutgers.edu/~gruteser/papers/gruteser_anonymous_lbs.pdf

- **#49) Introduction to differential privacy.**
<https://people.eecs.berkeley.edu/~stephentu/writeups/6885-lec20-b.pdf>

- **#50) Toward privacy in IoT mobile devices for activity recognition**
<https://hal.inria.fr/hal-01882330/document>