

#	Title	Keywords
Methods, techniques		
1	<a href="#">Delineating urban functional areas with building-level social media data: A dynamic time warping (DTW) distance-based k-medoids method</a>	Time-series data analysis, similarity measures, DTW
2	<a href="#">Mining event periodicity from incomplete observations</a>	Time-series data analysis, autocorrelation, Fourier transform,
3	<a href="#">Modeling Temporal-Spatial Correlations for Crime Prediction</a>	Time-series, Spatial data, spatial autocorrelation, temporal autocorrelation, spatial weights
4	<a href="#">Analyzing and predicting the spatial penetration of Airbnb in U.S. cities</a>	Spatial data analysis, spatial autocorrelation
5	<a href="#">Measuring Ambient Population from Location-Based Social Networks to Describe Urban Crime</a>	Spatial data analysis, Spatial lag model, spatial weights
6	<a href="#">Use and validation of location-based services in urban research: An example with Dutch restaurants</a>	Spatial data analysis
7	<a href="#">Incorporating spatial autocorrelation and settlement type segregation to improve the performance of an urban growth model</a>	Spatial data analysis, spatial autocorrelation
8	<a href="#">Spatial autocorrelation and the selection of simultaneous autoregressive models</a>	Spatial autocorrelation, spatial neighborhood
9	<a href="#">Segmenting human trajectory data by movement states while addressing signal loss and signal noise</a>	Spatio-temporal data analysis, Trajectory segmentation
10	<a href="#">Cooperative Parallel Particle Filters for online model</a>	Spatio-temporal data analysis, Particle filters, state-space models

	<a href="#">selection and applications to Urban Mobility</a>	
11	<a href="#">A trajectory clustering method based on Douglas-Peucker compression and T density for marine traffic pattern recognition</a>	Spatio-temporal data analysis, trajectory clustering, trajectory segmentation, Douglas-Peucker
12	<a href="#">Understanding the tourist mobility using GPS: Where is the next place?</a>	Spatio-temporal data analysis, trajectory clustering
13	<a href="#">Towards the Use of Neural Networks for Influenza Prediction at Multiple Spatial Resolutions</a>	Spatio-temporal data analysis, autoregressive models, neural networks, epidemic modeling
14	<a href="#">Short-Term Prediction of Passenger Demand in Multi-Zone Level: Temporal Convolutional Neural Network With Multi-Task Learning</a>	Machine learning for Spatio-temporal data, similarity measures, DTW, neural networks
15	<a href="#">Fused Matrix Factorization with Geographical and Social Influence in Location-Based Social Networks</a>	Machine learning for spatio-temporal data, Matrix factorization, LBSN
16	<a href="#">GeoME: Joint Geographical Modeling and Matrix Factorization</a>	Machine learning for spatio-temporal data, Matrix factorization, LBSN
17	<a href="#">Discovering Fine-Grained Spatial Pattern From Taxi Trips: Where Point Process Meets Matrix Decomposition and Factorization</a>	Machine learning for spatio-temporal data, Matrix factorization, LBSN, spatial data analysis, point processes
18	<a href="#">GeoSoCa: Exploiting geographical, social and categorical correlations for point-of-interest recommendations</a>	Machine learning for spatio-temporal data, LBSN
19	<a href="#">Joint Modeling of Dense and Incomplete Trajectories for Citywide Traffic Volume Inference</a>	Machine learning, spatio-temporal trajectory data, representation learning
20	<a href="#">CityTransfer: Transferring Inter- and Intra-City Knowledge for Chain Store Site Recommendation based on Multi-Source Urban Data</a>	Machine learning for spatio-temporal data, transfer learning, neural networks
21	<a href="#">Data-Driven Travel Time Prediction from Latent Structures using Multiple Data Sources</a>	Machine learning, fusing data sources, matrix factorization

22	<a href="#">Regions, Periods, Activities: Uncovering Urban Dynamics via Cross-Modal Representation Learning</a>	Machine learning, neural networks, representation learning
23	<a href="#">Region Representation Learning via Mobility Flow</a>	Machine learning, neural networks, representation learning
24	<a href="#">Learning Embeddings of Intersections on Road Networks</a>	Machine learning, neural networks, representation learning
25	<a href="#">Revisiting Spatial-Temporal Similarity: A Deep Learning Framework for Traffic Prediction</a>	Machine learning, neural networks
26	<a href="#">Revisiting Convolutional Neural Networks for Citywide Crowd Flow Analytics</a>	Machine learning, neural networks, crowd flow data, spatio-temporal data
27	<a href="#">AutoST: Efficient Neural Architecture Search for Spatio-Temporal Prediction</a>	Machine learning, neural networks, spatio-temporal data, automated machine learning (possibly interesting for people following the AutoML course)
28	<a href="#">Deep Spatio-Temporal Residual Networks for Citywide Crowd Flows Prediction</a>	Machine learning, neural networks
29	<a href="#">Hierarchically Structured Transformer Networks for Fine-Grained Spatial Event Forecasting</a>	Machine learning, neural networks, representation learning
Urban analytics, new societal applications, new data sources		
30	<a href="#">Transfer Learning from Deep Features for Remote Sensing and Poverty Mapping</a>	Poverty maps, remote sensing data, open data
31	<a href="#">An Intelligent Tree Planning Approach Using Location-based Social Networks Data</a>	Network analysis, LBSNs, Foursquare
32	<a href="#">Understanding the Effects of the Neighbourhood Built Environment on Public Health with Open Data</a>	Public Health with Open Data

33	<a href="#">ADAPT-Pricing: A Dynamic And Predictive Technique for Pricing to Maximize Revenue in Ridesharing Platforms</a>	Optimization application on New York taxi data
34	<a href="#">The dark side of the Earth: benchmarking lighting access for all cities on Earth and the CityNet dataset (Integrating open-source remote-sensing data products on the urban environment)</a>	Remote sensing data, open data
35	<a href="#">Predicting Traffic Accidents Through Heterogeneous Urban Data: A Case Study</a>	Multiple data sources, open data
36	<a href="#">Detecting Urban Anomalies Using Multiple Spatio-Temporal Data Sources</a>	Multiple data sources, open data
37	<a href="#">Predicting the Spatio-Temporal Evolution of Chronic Diseases in Population with Human Mobility Data</a>	Foursquare LBSN + open data
38	<a href="#">Dynamic macro scale traffic flow optimisation using crowd-sourced urban movement data</a>	Foursquare LBSN + open data
39	<a href="#">BigEarthNet Dataset with A New Class-Nomenclature for Remote Sensing Image Understanding</a>	Remote sensing data, Open data source, transfer learning, machine learning, neural networks ( <i>a useful benchmark dataset for testing your urban application ideas</i> )
40	<a href="#">The determinants of the differential exposure to COVID-19 in New York City and their evolution over time</a>	New data sources, Covid-19, exploratory analysis
41	<a href="#">Were Urban Cowboys Enough to Control COVID-19? Local Shelter-In-Place Orders and Coronavirus Case Growth</a>	New data sources, Cell-phone data, Covid-19 policy data
42	<a href="#">Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe</a>	New data sources, Open data sources, Covid-19

Additionally, you can select accepted papers from previously accepted papers of Urban Computing workshops <http://urban.cs.wpi.edu/urbcomp2020/pass.html> and bid for them. If you are interested in any other papers, we can discuss them as well.