

### Conference Paper

## An Analysis of User Mobility in Cellular Networks

October 2018

DOI: 10.1145/3265863.3265878

Conference: the 16th ACM International Symposium


Shamma Nikhat · Mustafa Mehmet-Ali

Citations	0	0 new
Recommendations	0	0 new
Reads	1	1 new
Followers	0	0 new

[Request full-text](#) 

- Overview
- Comments
- Citations
- References (7)
- Related research (10+)

References (7)

**Theoretical analysis of handover and dynamic cell reconfiguration through monitored vehicular speed**  
[Conference Paper](#)  
Oct 2017  
 Hiroshi Saito  
7 Reads · 1 Citation  
Recommend Follow Share  
[Request full-text](#)

+4



Conference Paper

Full-text available

Jul 2017

 Baha Uddin Kazi ·  G. A. Wainer

35 Reads · 4 Citations

### Stochastic Geometric Analysis of User Mobility in Heterogeneous Wireless Networks

Article

Oct 2015 · IEEE Journal on Selected Areas in Communications

 Wei Bao ·  Ben Liang

Horizontal and vertical handoffs are important ramifications of user mobility in multitier heterogeneous wireless networks. They directly impact the signaling overhead and quality of calls. However, they are difficult to analyze due to the irregularly shaped network topologies introduced by multiple tiers of cells...

12 Reads · 46 Citations

Recommend Follow Share

Request full-text

### Towards Understanding the Fundamentals of Mobility in Cellular Networks

Article

Apr 2013 · IEEE Transactions on Wireless Communications

 Xingqin Lin ·  Radha Krishna Ganti ·  Peter J. Fleming ·  Jeffrey G. Andrews

Despite the central role of mobility in wireless networks, analytical study on its impact on network performance is notoriously difficult. This paper aims to address this gap by proposing a random waypoint (RWP) mobility model defined on the entire plane and applying it to analyze two key cellular...

18 Reads · 81 Citations

Recommend Follow Share

Request full-text

### A Tractable Approach to Coverage and Rate in Cellular Networks

Article

Full-text available

Nov 2011 · IEEE Transactions on Communications

 Jeffrey G. Andrews ·  François Baccelli ·  Radha Krishna Ganti

Cellular networks are usually modeled by placing the base stations on a grid, with mobile users either randomly scattered or placed deterministically. These models have been used extensively but suffer from being both highly idealized and not very tractable, so complex system-level simulations are used to...

623 Reads · 1741 Citations

Recommend Follow Share

## Article

Mar 2012 · Proceedings - IEEE INFOCOM

 Yung-Chih Chen ·  Jim Kurose ·  Don Towsley

Although wireless networks have become ubiquitous, surprisingly few models of user-level mobility have been developed and validated against traces of measured user behavior. In this paper, we develop a simple, parameterized, open queueing network model of user mobility among access points in a campu...

12 Reads · 29 Citations

[Recommend](#) [Follow](#) [Share](#)

[Request full-text](#)

## Mobility Modeling and Analytical Solution for Spatial Traffic Distribution in Wireless Multimedia Networks

### Article

Jan 2004 · IEEE Journal on Selected Areas in Communications

 F. Ashtiani ·  Jawad A. Salehi ·  Mohammad Reza Aref

In this paper, we propose a general mobility model suitable for wireless multimedia networks. Our model is based on splitting a region into subregions. Furthermore, we make an analogy between subregions as well as their inter-connections with a multi-class Jackson queueing network comprising of infinite-serve...

22 Reads · 37 Citations

[Recommend](#) [Follow](#) [Share](#)

[Request full-text](#)