

A Mobile Distributed System for Personal Security

- **Introduction**

The goal of this system is to provide a location-based alarm system through which customers can broadcast their last known position in emergency situations. Imagine that you are hiking in the forest alone and don't know how to get back to your car, or you get lost driving to your friend's home. At times like these, how can you ask for help? With the push of a single button or pull off the hands-free cord on this system, it will notify your friends with your latest locations immediately.

- **Positioning**

Mobile positioning determines the user's actual location information by mobile terminals and mobile networks, such as text messages or mobile signals to a complete a series of location information services. The mobile positioning method can be broadly classified into three types:

- ✓ **Positioning based on triangulation:** This approach is most widely used in mobile positioning technology. It uses the geometric calculation of the triangular relationship to measure the target object's location. This measurement of positioning technology needs to know three reference point locations and the distances from those reference point locations to the target object. Then using triangular knowledge, it can detect the target object's position.
- ✓ **Positioning based on environment analysis:** This approach uses the characteristics of the environment surrounding the target object to measure its location. It detects the target object's location by comparing the characteristics of the surrounding environment to existing characteristics which have been stored in a database.
- ✓ **Positioning based on relationship:** This approach uses the relationship of the target object and one or more existing objects to measure the target object's location. It needs an identification system to identify each unique existing object such as the id of each cell tower.

- **Track Position**

The mobile phone may receive cell signal or Wi-Fi signal from different cell towers or access points. Therefore we would apply the triangulation theory in our solution to calculate approximate location. However, it cannot work so precisely as GPS. The figure below shows the triangulation theory in the cell phone.

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A Mobile Distributed System For Personal Security:

Security in Distributed and Networking Systems Yang Xiao, Yi Pan, 2007 Security issues in distributed systems and network systems are extremely important This edited book provides a comprehensive treatment on security issues in these systems ranging from attacks to all kinds of solutions from prevention to detection approaches The book includes security studies in a range of systems including peer to peer networks distributed systems Internet wireless networks Internet service e commerce mobile and pervasive computing Security issues in these systems include attacks malicious node detection access control authentication intrusion detection privacy and anonymity security architectures and protocols security theory and tools secrecy and integrity and trust models This volume provides an excellent reference for students faculty researchers and people in the industry related to these fields

Seventh IEE European Conference on Mobile and Personal Communications, 13-15 December 1993, Venue, Brighton Centre, Brighton, UK ,1993 *Internet and Distributed Computing Systems* Mukaddim Pathan, Guiyi Wei, Giancarlo Fortino, 2013-10-22 This book constitutes the refereed proceedings of the 6th International Conference on Internet and Distributed Computing Systems IDCS 2013 held in Hangzhou China in October 2013 The 20 revised full papers and 13 invited papers presented were carefully reviewed and selected from numerous submissions The papers cover the following topics ad hoc and sensor networks internet and Web technologies network operations and management information infrastructure resilience as well as fault tolerance and availability

Breakthrough Perspectives in Network and Data Communications Security, Design and Applications Bose, Indranil, 2008-12-31 Addresses key issues and offers expert viewpoints into the field of network and data communications Presents research articles that investigate the most significant issues in network and data communications

Advances in Information Security Management & Small Systems Security Jan H.P. Eloff, Les Labuschagne, Rossouw von Solms, Gurpreet Dhillon, 2008-11-14 The Eighth Annual Working Conference of Information Security Management and Small Systems Security jointly presented by WG11 1 and WG11 2 of the International Federation for Information Processing IFIP focuses on various state of art concepts in the two relevant fields The conference focuses on technical functional as well as managerial issues This working conference brings together researchers and practitioners of different disciplines organisations and countries to discuss the latest developments in amongst others information security methods methodologies and techniques information security management issues risk analysis managing information security within electronic commerce computer crime and intrusion detection We are fortunate to have attracted two highly acclaimed international speakers to present invited lectures which will set the platform for the reviewed papers Invited speakers will talk on a broad spectrum of issues all related to information security management and small system security issues These talks cover new perspectives on electronic commerce security strategies documentation and many more All papers presented at this conference were reviewed by a minimum of two international reviewers We wish to express our gratitude to all authors of papers and the international

referee board We would also like to express our appreciation to the organising committee chaired by Gurpreet Dhillon for all their inputs and arrangements Finally we would like to thank Les Labuschagne and Hein Venter for their contributions in compiling this proceeding for WG11 1 and WG 11 2

Forensic Investigations and Risk Management in Mobile and Wireless Communications Sharma, Kavita, Makino, Mitsunori, Shrivastava, Gulshan, Agarwal, Basant, 2019-07-26 Mobile forensics has grown from a relatively obscure tradecraft to a crucial part of many criminal investigations and is now used daily by examiners and analysts within local state and federal law enforcement as well as within the military US government organizations and the private e Discovery industry Developments in forensic research tools and processes over the past decade have been very successful and continue to change at a rapid pace Forensic Investigations and Risk Management in Mobile and Wireless Communications is a collection of innovative research on the methods and applications of analyzing mobile devices and data for collection of information pertaining to the legal evidence related to various security breaches and intrusion detection While highlighting topics including cybercrime neural networks and smartphone security this book is ideally designed for security analysts IT professionals researchers practitioners academicians and students currently investigating the up and coming aspects surrounding network security computer science and security engineering

Security in Distributed, Grid, Mobile, and Pervasive Computing Yang Xiao, 2007-04-17 This book addresses the increasing demand to guarantee privacy integrity and availability of resources in networks and distributed systems It first reviews security issues and challenges in content distribution networks describes key agreement protocols based on the Diffie Hellman key exchange and key management protocols for complex distributed systems like the Internet and discusses securing design patterns for distributed systems The next section focuses on security in mobile computing and wireless networks After a section on grid computing security the book presents an overview of security solutions for pervasive healthcare systems and surveys wireless sensor network security

1997 International Conference on Parallel and Distributed Systems IEEE Computer Society. TC on Distributed Processing, 1997 Aimed at researchers professors practitioners students and other computing professionals this work looks at architectures parallel and distributed computation networks mobile computing and communication parallel language and compiler and cache memory

Proceedings of the 1986 IEEE Symposium on Security and Privacy, April 7-9, 1986, Oakland, California, 1986

MCommerce Security Kapil Raina, Anurag Harsh, 2002 Security is one of the highest strategic priorities that operators and mobile commerce service providers face in the modern era This text book describes mCommerce applications and the various security implications associated with them

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, 1986 Mobile Agents for Telecommunication Applications, 2003 **Parallel and Distributed Computing, Applications and Technologies** Pingzhi Fan, Hong Shen, 2003 Issues for 2012 to be cataloged as a serial in LC

Proceedings of the Symposium on Network and Distributed System Security, 1996 Seventh IEEE

International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WET ICE '98) : Proceedings IEEE Computer Society,1998 This volume comprises papers arising from the 7th Enabling Technologies workshop WET ICE 98 Topics include access to information collaboration mobile agents coordination mobile computing and intelligent agents and multi agent systems

Proceedings of the Symposium on Network and Distributed System Security, February 16-17, 1995, San Diego, California Internet Society,1995 Proceedings of the February 1995 symposium on network and distributed system security Papers and panels address topics such as security architecture for the Internet infrastructure security at the network layer off line object distribution security electronic cash on the Internet security monitoring tools such as NERD and SNIF and security issues for Mosaic and the World Wide Web No index Annotation copyright by Book News Inc Portland OR

Mobile Communications Jochen H. Schiller,2000 This is a technical introduction to the current developments within Mobile communications It allows the reader to assess new developments how to harness new technologies and how to improve existing systems Although it does not evangelise it does allow readers to keep abreast of new technologies and current trends

ACM Conference on Computer and Communications Security ,2005
Applied Cryptography and Network Security ,2005 Proceedings of the ... ACM Workshop on Wireless Security ,2005

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