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Wireless Communication in Underground Mines

RFID-Based Sensor Networking

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Wireless Communication In Underground Mines

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**Simona Mirela Riurean, Monica
Leba, Andreea Cristina Ionica**



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Wireless Communication in Underground Mines L. K. Bandyopadhyay, S. K. Chaulya, P. K. Mishra, 2009-08-29

Wireless communication has emerged as an independent discipline in the past decades Everything from cellular voice telephony to wireless data transmission using wireless sensor networks has profoundly impacted the safety production and productivity of industries and our lifestyle as well After a decade of exponential growth the wireless industry is one of the largest industries in the world Therefore it would be an injustice if the wireless communication is not explored for mining industry Underground mines which are characterized by their tough working conditions and hazardous environments require fool proof mine wide communication systems for smooth functioning of mine workings and ensuring better safety Proper and reliable communication systems not only save the machine breakdown time but also help in immediate passing of messages from the vicinity of underground working area to the surface for day to day normal mining operations as well as for speedy rescue operations in case of disaster Therefore a reliable and effective communication system is an essential requisite for safe working and maintaining requisite production and productivity of underground mines Most of the existing systems generally available in underground mines are based on line wired communication principle hence these are unable to withstand in the disaster conditions and difficult to deploy in inaccessible places Therefore wireless communication is an indispensable reliable and convenient system and essential in case of day to day normal duty or disaster situations

Application of Visible

Light Wireless Communication in Underground Mine Simona Mirela Riurean, Monica Leba, Andreea Cristina

Ionica, 2021-02-02 This book provides a chronological literature review of optical wireless communication followed by a detailed blueprint of a visible light communication VLC setup with the key characteristics of LEDs and photodetectors Next the optical channel impulse response and its description for different possible topologies is presented together with a description of the optical and electrical setup for both optical transmitters oTx and optical receivers oRx Different single carrier and multi carrier modulations particularly applied in visible light communication setups are also presented Both the optical and electrical modules of oTx and oRx are simulated and then prototyped and tested as embedded devices in an underground positioning and monitoring system for a continuous real time identification of the personnel on the main underground galleries where the illumination network is already installed Presents a comprehensive look at visible light communication technology both in description and application Shows where and how VLC has been launched on the market as an alternative or partner technology to the existing wireless communication technologies based on radio frequency Includes special focus on underground positioning and monitoring with embedded VLC

A Medium Frequency Wireless

Communication System for Underground Mines Larry G. Stolarczyk, A.R.F. Products, Inc, United States. Bureau of Mines, 1984

Application of Visible Light Wireless Communication in Underground Mine Simona Mirela Riurean, Monica Leba, Andreea Cristina Ionica, 2021 This book provides a chronological literature review of optical wireless communication

followed by a detailed blueprint of a visible light communication VLC setup with the key characteristics of LEDs and photodetectors Next the optical channel impulse response and its description for different possible topologies is presented together with a description of the optical and electrical setup for both optical transmitters oTx and optical receivers oRx Different single carrier and multi carrier modulations particularly applied in visible light communication setups are also presented Both the optical and electrical modules of oTx and oRx are simulated and then prototyped and tested as embedded devices in an underground positioning and monitoring system for a continuous real time identification of the personnel on the main underground galleries where the illumination network is already installed Presents a comprehensive look at visible light communication technology both in description and application Shows where and how VLC has been launched on the market as an alternative or partner technology to the existing wireless communication technologies based on radio frequency Includes special focus on underground positioning and monitoring with embedded VLC

Underground Mining: Production, Productivity and Safety D. C. Panigrahi,A. K. Singh,Abhinav Saini,2025-06-09 This book comprises 15 peer reviewed chapters contributed by distinguished experts offering in depth insights into innovative practices and research developments in the mining industry The publication is part of an ongoing initiative by PMRC Private Limited to promote the dissemination of novel ideas and practical solutions aimed at enhancing efficiency safety and sustainability in mining operations The volume has been conceptualized and compiled by Prof D C Panigrahi Dr A K Singh and Abhinav Saini three researchers actively engaged with PMRC in addressing real world challenges in the mining sector Their professional profiles and contributions are featured in the introductory section of the book setting the tone for the reader to appreciate the depth of expertise behind the work Beyond the technical contributions the book also highlights the vision mission and activities of PMRC Private Limited helping readers from academia industry government agencies such as the Directorate General of Mines Safety and policy making bodies understand the broader context of collaborative innovation This volume serves as a bridge between research and implementation encouraging knowledge sharing and cooperative efforts to foster technological advancements and sustainable practices in mining and its allied fields It is a valuable resource for professionals researchers and institutions committed to modernizing and transforming the mining industry

4G Wireless Communication Networks Johnson I. Agbinya,Mari Carmen Aguayo-Torres,Ryszard Klempous,2022-09-01 This book is a detailed compendium of these major advancements focusing exclusively on the emerging broadband wireless communication technologies which support broadband wireless data rate transmissions Several applications of the wireless communication networks including health care underground communication biomedical and bio telemetry systems are detailed in the book

Underground Mine Communications, Control and Monitoring ,1984 **Smart Technologies for Emergency Response and Disaster Management** Liu, Zhi,Ota, Kaoru,2017-06-19 Disaster management is an imperative area of concern for society on a global scale Understanding how to best utilize information and communication technology to help

manage emergency and disaster situations will lead to more effective advances and innovations in this important field Smart Technologies for Emergency Response and Disaster Management is a pivotal reference source that overviews current difficulties challenges and solutions that technology must adapt to in crisis situations Highlighting pertinent topics such as network recovery evacuation design sensing technologies and video technology this publication is ideal for engineers professionals academicians and researchers interested in discovering more about emerging technologies in crisis management

Proceedings of the 2012 International Conference on Cybernetics and Informatics Shaobo Zhong, 2013-08-23 Proceedings of the International Conference on Cybernetics and Informatics ICCI 2012 covers the hybridization in control computer information communications and applications ICCI 2012 held on September 21-23 2012 in Chongqing China is organized by Chongqing Normal University Chongqing University Nanyang Technological University Shanghai Jiao Tong University Hunan Institute of Engineering Beijing University and sponsored by National Natural Science Foundation of China NSFC This two volume publication includes selected papers from the ICCI 2012 Covering the latest research advances in the area of computer informatics cybernetics and applications which mainly includes the computer information control communications technologies and applications

Applied Learning Algorithms for Intelligent IoT Pethuru Raj Chelliah, Usha Sakthivel, Susila Nagarajan, 2021-10-28 This book vividly illustrates all the promising and potential machine learning ML and deep learning DL algorithms through a host of real world and real time business use cases Machines and devices can be empowered to self learn and exhibit intelligent behavior Also Big Data combined with real time and runtime data can lead to personalized prognostic predictive and prescriptive insights This book examines the following topics Cognitive machines and devices Cyber physical systems CPS The Internet of Things IoT and industrial use cases Industry 4.0 for smarter manufacturing Predictive and prescriptive insights for smarter systems Machine vision and intelligence Natural interfaces K means clustering algorithm Support vector machine SVM algorithm A priori algorithms Linear and logistic regression Applied Learning Algorithms for Intelligent IoT clearly articulates ML and DL algorithms that can be used to unearth predictive and prescriptive insights out of Big Data Transforming raw data into information and relevant knowledge is gaining prominence with the availability of data processing and mining analytics algorithms platforms frameworks and other accelerators discussed in the book Now with the emergence of machine learning algorithms the field of data analytics is bound to reach new heights This book will serve as a comprehensive guide for AI researchers faculty members and IT professionals Every chapter will discuss one ML algorithm its origin challenges and benefits as well as a sample industry use case for explaining the algorithm in detail The book's detailed and deeper dive into ML and DL algorithms using a practical use case can foster innovative research

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