

# Application Remote Control Using Bluetooth (ARC)

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**Abstract**—This paper describes an ingenious way of using Bluetooth-Enabled Mobile Phones to control the PC applications with the help of a Software Application, which is based on Client Server architecture. The application “Application Remote Control using Bluetooth” or (ARC) along with the Mobile Phone possess the ability to control various Software Applications such as Windows Media Player and Microsoft PowerPoint Slideshows. It can also control electrical devices such as LEDs, fans using parallel (LPT) port of the PC, and PC monitor.

**Keywords**- Bluetooth; remote control; home networking; PAN; home appliances; wireless networks; J2ME; Java; handheld devices; Nokia 6400

## I. INTRODUCTION

Wireless technologies are bringing future to present. Bluetooth is a one such wireless technology which is reshaping the way we live and work. It is an implementation of a protocol defined by the IEEE 802.15 standard. The protocol operates in the unlicensed industrial, scientific and medical (ISM) band at 2.4 to 2.485 GHz, using a spread spectrum, frequency hopping, full-duplex signal at a nominal rate of 1600 hops/sec. The 2.4 GHz ISM band is available and unlicensed in most countries [1].

About 13 percent of Mobile Phones shipped in the United States in 2004 had Bluetooth, according to IDC research. The number will grow to about 53 percent globally and 65 percent in the United States alone by 2008 [2].

The current work envisages the utilization of these Mobile Phones as remote controls to Personal Computers.

## II. PRIMARY OBJECTIVE

The primary objective of the application ARC is to manage the computer applications executing in the Personal Computer or Laptop using a Mobile Phone. This Mobile Phone should be Bluetooth enabled and the Personal Computer or Laptop\*

should have the Bluetooth Dongle or any other Bluetooth hardware installed.

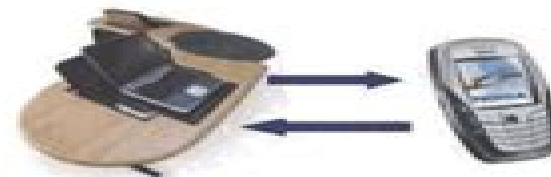
Once the basic hardware setup is done a client side application is deployed over the Mobile Phone and server side application is deployed over Personal Computer.

The Client application searches for the Personal Computer and after the Connection establishment and Authorization, application on Mobile Phone starts controlling the applications on the Personal Computer.

## III. PROBLEM AND SOLUTION

While developing the solution for the application we divided the problem at hand into two parts:

1. Connection between Personal Computer and Mobile Phone.
2. Operations in the Personal Computer once a connection is established.



### A. Problem one: Connection between Personal Computer and Mobile Phone

This problem can be solved in two ways

- 1) *COM based solution:* The COM-based solution is based on virtual COM ports created by both communicating devices. From the programmer's point of view, using a virtual COM port is similar to using a normal COM port [3].

# Application Remote Control Using Bluetooth Researchgate

**E Durkheim**



## **Application Remote Control Using Bluetooth Researchgate:**

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## **Table of Contents Application Remote Control Using Bluetooth Researchgate**

1. Understanding the eBook Application Remote Control Using Bluetooth Researchgate
  - The Rise of Digital Reading Application Remote Control Using Bluetooth Researchgate
  - Advantages of eBooks Over Traditional Books
2. Identifying Application Remote Control Using Bluetooth Researchgate
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Application Remote Control Using Bluetooth Researchgate
  - User-Friendly Interface
4. Exploring eBook Recommendations from Application Remote Control Using Bluetooth Researchgate
  - Personalized Recommendations
  - Application Remote Control Using Bluetooth Researchgate User Reviews and Ratings
  - Application Remote Control Using Bluetooth Researchgate and Bestseller Lists
5. Accessing Application Remote Control Using Bluetooth Researchgate Free and Paid eBooks
  - Application Remote Control Using Bluetooth Researchgate Public Domain eBooks
  - Application Remote Control Using Bluetooth Researchgate eBook Subscription Services

- Application Remote Control Using Bluetooth Researchgate Budget-Friendly Options
- 6. Navigating Application Remote Control Using Bluetooth Researchgate eBook Formats
  - ePub, PDF, MOBI, and More
  - Application Remote Control Using Bluetooth Researchgate Compatibility with Devices
  - Application Remote Control Using Bluetooth Researchgate Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Application Remote Control Using Bluetooth Researchgate
  - Highlighting and Note-Taking Application Remote Control Using Bluetooth Researchgate
  - Interactive Elements Application Remote Control Using Bluetooth Researchgate
- 8. Staying Engaged with Application Remote Control Using Bluetooth Researchgate
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Application Remote Control Using Bluetooth Researchgate
- 9. Balancing eBooks and Physical Books Application Remote Control Using Bluetooth Researchgate
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Application Remote Control Using Bluetooth Researchgate
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Application Remote Control Using Bluetooth Researchgate
  - Setting Reading Goals Application Remote Control Using Bluetooth Researchgate
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Application Remote Control Using Bluetooth Researchgate
  - Fact-Checking eBook Content of Application Remote Control Using Bluetooth Researchgate
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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normal monsoon which means rainfall is likely to be in the range of 96 to 104 of the long period average lpa of the 1971 2020 period

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web vocabulary a monsoon is a seasonal change in the direction of the prevailing or strongest winds of a region monsoons cause wet and dry seasons throughout much of the tropics monsoons are most often associated with the indian ocean monsoons always blow from cold to warm regions

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web sep 1 2022 monsoons are a seasonal wind shift over a certain region usually associated with the indian ocean that can cause rainy or dry seasons

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web according to the meteorological definition the seasons begin on the first day of the months that include the equinoxes and solstices in the northern hemisphere for example spring runs from march 1 to may 31 summer runs from june 1 to august 31

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web sep 4 2023 indian monsoon the most prominent of the world s monsoon systems which primarily affects india and its surrounding water bodies it blows from the northeast during cooler months and reverses direction to blow from the southwest during the warmest months of the year this process brings large

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web mar 12 2010 rather monsoon is a seasonal shift in wind this shift does tend to bring some mighty violent weather with it however serious monsoons occur in india and in much of mexico acapulco averages 51

**monsoon season what it is causes and hazards thoughtco** - May 12 2023

web jul 12 2019 a history of monsoon studies the earliest explanation for monsoon development came in 1686 from the english astronomer and mathematician edmond halley halley is the man who first conceived the idea that differential heating of land and ocean caused these giant sea breeze circulations

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web sep 12 2023 new york cnn mcDonald s is getting rid of one of its biggest perks the fast food chain is eliminating its self

serve soda machines by 2032 at its us restaurants the company said

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web sep 14 2023 since it is based on the hebrew calendar rosh hashanah begins on the first day of the seventh month so this year s celebration will begin at sunset on friday sept 15 2023 and continue

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web sep 11 2023 the poleward limits of monsoon systems are often sites of sharp changes in wind direction in india for example the monsoon blows from the southwest in july and august and north of india the winds are from the east in northern australia the monsoon arrives from the northwest during january february

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web may 20 2022 the arizona monsoon season starts approximately in june and continues through september since 2008 the established dates from the national weather service are from june 15 through sept 30

**monsoon season in india what to expect tripsavvy** - Jan 08 2023

web aug 9 2019 in a nutshell monsoon season in india begins in early june and lasts until the beginning of october the rain begins to dry up in north india first south india and places such as goa usually receive more rainfall during the monsoon season as with any destination traveling during the shoulder months on either end of monsoon season is

**sci simplified what is monsoon why kerala receives first** - Sep 04 2022

web jun 2 2021 this is the reason why the indian subcontinent witnesses monsoon rains between june to september while the australian monsoon season generally lasts from december to march monsoon onset over kerala