## Electronic Tracking for Wireless Infrared Communications

Volker Jungnickel, Member, IEEE, Andreas Forck, Thomas Haustein, Udo Krüger, Member, IEEE, Volker Pohl, and Clemens von Helmolt

Abstract—A high-speed wireless system ( $\geq$ 100 Mbh) for indoor infrared (IR) communications via the line of sight is described and feasibility is shown in an experimental demonstrator. A diffuselink is used for connectivity, and tracked directed links are used for high-speed communications.

The transmitter is made of a laser diode array in combination with multiple-beam forming optics. For the receiver (Rx), a wide-angle iems, and an avalanche photodiode array are used. For the diffuse link, the signals from all pixels in the array are combined. Pixels are selectively addressed to realize directed links. Fast electronic tracking of a directed link is possible by switching the signal path onto the right pixel in the array. Diffuse link, directed link, position detection, and tracking can be realized with one and the same transcolver hardware.

A favorite system design is derived from constraints due to the IR channel, eye safety, lenses, photodetectors, and the overall system complexity. The experimental system shows some key features, namely 155-Mb/s wireless transmission over a distance of nearly 2 m with electronic tracking at an imaging IR Rs. Electronic tracking of IR links, thus, allows both high data rates and high capacity for wireless access in small office and home environments.

Index Irran—Beam steering, directions of arrival (DOA) estimation, multiacces communication, multipath channels, optical arrays, optical communication, wireless local area network (WLAN).

#### II. INTRODUCTION

A T PRESENT, people are familiar with wireless communication systems and much research is done to increase their data rate and capacity. At the same time, a public discussion rises whether or not microwave radiation has nonfleemal effects on human tissue in addition to the well-known heating process due to absorption. The present paper is intended to evaluate the potential of infrared (IR) transmission as an abernative to radio for applications in wireless local area networks (WLANs). The basic properties of IR WLANs were investigated in [1]. While the diffuse configuration was studied in detail in [2], the present paper is mainly concerned with the tracked directed link architecture.

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BS: base station. MS: mobile station

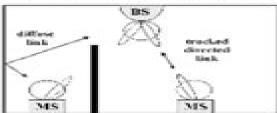


Fig. 1. Two basic limit modes for wireless IR communications. The difficer limit is based on reflections at the walls, the ceiling, and the floor and, in principle, to LOS is required. When the LOS is fee, a tracked directed limit is prefurable. It is more power-efficient and allows datamates beyond 100 Mb/s.

At first sight, it seems to be difficult to support mobility of the user with a directed optical link. For instance, the popular Infræed Data Association interfaces must be carefully aligned to each other and the maximum distance is about 1 m. In contrast, a diffuse IR link offers better mobility since it uses diffuse reflections from the walls, the ceiling, and the floor (see Fig. 1) to transmit data from an IR transmitter (Tx) to an IR receiver (Rx) and, bence, no alignment is required. Connectivity between Tx and Rx can be maintained even when the line of sight (LOS) is blocked. On the other hand, the signal arrives with a delay spread of some ten nanoseconds at the Rx and, in unfavorable configurations, a transmission bandwidth of less than 10 MHz may be available [3]. In addition, the entire room must be illuminated by the Tx. This is naturally realized by diffuse light peopagation after a few reflections but it needs a huge Tx power. For instance, 475 mW. Tx power was needed for a diffuse 50-Mb/s. link at 4.4-m borizontal separation between Tx and Rx, both directed to the ceiling [2].

Tracked directed links are a different concept, also shown in Fig. 1. The base station (BS) is mounted at the ceiling and the mobile stations (MSs) are placed on table-top height. Both in the up-link and in the down-link, the Tx beam is concentrated onto the Rx and less power is needed than in a diffuse link. Both the narrow Tx beam and the smaller field of view (FOV) of the Rx reduce multipath signals due to diffuse reflections, and a high bandwidth becomes available. Additionally, interference by the sum or artificial light sources can efficiently be suppressed by pointing a directive Rx selectively toward the Tx. A manually tracked directed IR link with 155 Mb/s over a distance of 2 m was demonstrated in [4] and a 1-Gb6 link was reported in [5].

# Wireless Infrared Communications Wireless Infrared Communications

**Sarah Marie Carroll** 

#### **Wireless Infrared Communications Wireless Infrared Communications:**

Low-Power Wireless Infrared Communications Rob Otte, Leo P. de Jong, Arthur H.M. van Roermund, 2013-04-17 Today wireless infrared transmission has entered our homes offices industry and health care with applications in the field of remote control telemetry and local communication This book is about the underlying technology As it is an outgrowth of my Ph D thesis the emphasis is on fundamental aspects rather than industrial aspects like the standardization effort by the IrDA 7 I guess that this is not a drawback as eventually the laws of physics apply to all of us As the applied radiation is not necessarily in the infrared throughout the book we usually prefer the term optical transmission As most equipment is battery powered the emphasis is on power optimization of the optical transmission system System parameters as well as environ mental parameters that determine the eventual transmission quality are iden tified to facilitate well reasoned system design Many design rules based on calculations measurements and simulations are presented to help the designer push the performance close to the limits set by nature and the available tech nology The first chapters introduce the subject and the present the scope of the book Then the basic transmission link is introduced in chapter 3 and strate gies to optimize its signal to noise ratio are discussed Lighting flicker is identified as a possible source of interference Then receiver noise and bandwidth are discussed in chapter 4 mainly based on the material presented in 66 67 69 Wireless Infrared Communications John R. Barry, 2012-12-06 The demand for wireless access to network services is growing in virtually all communications and computing applications Once accustomed to unteathered operation users resent being tied to a desk or a fixed location but will endure it when there is some substantial benefit such as higher resolution or bandwidth Recent technological advances however such as the scaling of VLSI the development of low power circuit design techniques and architectures increasing battery energy capacity and advanced displays are rapidly improving the capabilities of wireless devices Many of the technological advances contributing to this revolution pertain to the wireless medium itself There are two viable media radio and optical In radio spread spectrum techniques allow different users and services to coexist in the same bandwidth and new microwave frequencies with plentiful bandwidth become viable as the speed of the supporting low cost electronics increases Radio has the advantage of being available ubiquitously indoors and outdoors with the possibility of a seam less system infrastructure that allows users to move between the two There are unan swered but likely to be benign biological effects of microwave radiation at higher power densities Optical communications is enhanced by advances in photonic devices such as semiconductor lasers and detectors Optical is primarily an indoor technology where it need not compete with sunlight and offers advantages such as the immediate availability of a broad bandwidth without the need for regulatory approval

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