## THE SUMMARY OF Ph.D.DISSERTATION

Major	Student Identification Number	SURNAME, Firstname FUKUI, Ryotaro
	ly on the Composing Method o inication System to Support S	of the Dedicated Short Range Safety Driving of the Vehicles
means of comm but means of co To assist safe c constructed alo Radio frequence straight propag line-of-sight pr In my resear and propose a c continuously at method for cha communication of communication of communication of communication of communication of former r automated driv means, was tess cables, and the In Chapter 4 to the standard safe cruising. I securing line-of communication antennas to the In Chapter 5 vehicles in the To address this wireless zone to zone, and a tim communication Chapter 6 pr mathod, contin already used for	nunication to provide road traffic in ommunication for the safety are still ruising, a continuous and highly re- ing the roads, and various kinds of it ies, such as 5.8GHz band microway gation, so that, to ensure a stable co- opagation paths. ch, I focus my attention on the inst configuration method for a continuour anged according to these standard nging the size of the wireless zone, it time slots, as well as to evaluate the ion to assist safe cruising. plains the positioning of this researd d purpose. ves an outline of my stance on DSR esearch. In the Japanese joint resear- ring using Leaky Coaxial Cables (Lu- ted. The chapter gives an overview reasons why the research on this r , we propose a method to install mi- ls for roadway lighting in order to b in a simulation, I further evaluated f-sight propagation paths. I also pro- efficiency from degrading due to h e same wireless equipment to config , I brought up the issue that, when zone increases, and the number of issue, we proposed and evaluated is hat changes its configuration deper- nent as the conclusion, summarizing uous wireless zones based on 5.8 G or ETC, etc., can be configured in ar	nethods are being proposed and tested. es for DSRC, have the characteristic of mmunication, it is important to secure allation standards for roadway lighting, us wireless zone where minimal DSRC is ls. My further research is to propose a and for the multiplex use of ne effectiveness of this method as a means ech, and Chapter 2 presents its C used to assist safe cruising of vehicles, arch of the public and private sector, CX), as a continuous-type communication of the communication method using LCX nethod was discontinued. nimal DSRC roadside antennas according uild a continuous wireless zone to assist that the method is extremely effective in posed a configuration that prevents the and-over, by connecting multiple roadside gure one long wireless zone. a wireless zone expands, the number of vehicles that can communicate is limited. a configuration method for a dynamic ding on the number of vehicles in the nultiple vehicles can share and multiplex vehicle density. g that by using the proposed configuration Hz band local DSRC technology, which is