

## **ABSTRACT**

*One of the factors which contributes to traffic jam in Bandung is the using the road-way as on street parking. On the street parking decreases the road capacity, jams the transportation and makes ineffectively uses of the road. The good integration of the Local Government of Bandung, The Communication Service of Bandung (Dishub), and Unit Pelaksana Teknis Daerah (UPTD) Parkir of Bandung must be in optimal work. In order to support the process of on street parking management it needs a sophisticated system. The system which is able to manage parking data and knowledge is Parking Knowledge Management System (KMS).*

*To make the later improvement easier iterative and incremental methods based on web technology using framework Code Igniter is applied in designing KMS process. The steps in designing Parking KMS are business modeling, requirements, analysis design, implementation and testing. Besides, it applies the process of Knowledge Conversion 5Cs and 4Cs in designing parking KMS in order to facilitate the on street parking management with knowledge.*

*The result of this research is KMS with its functions to support the process on street parking management. The functions in Parking KMS are management of parking area data, performing parking area data, and the management of random test. The functions facilitate the process of policy making on street parking with knowledge of characteristics of any parking area that is taken by every stakeholder.*

*Keywords : Bandung, CodeIgniter, Iterative dan Incremental, Knowledge, Knowledge Conversion, Knowledge Management System, On Street Parking*