



Spatial Load Forecasting Model for Sri Lanka

P.S.N. De Silva¹

H. L. Rasara²

W. N.U. Wijesinghe[#]

S. A. Bartholomeuz³

N.D.P.S.R. Kalyanarathne⁴

Department of Electrical Engineering, Faculty of Engineering, University of Moratuwa, Sri Lanka

E-mails: narendra.desilva@leco.lk¹, rasara.hl@gmail.com², udayanthaw@gmail.com[#], shehanb@gmail.com³, sidathk@hotmail.com⁴

Abstract

This paper presents a Spatial Load Forecasting Model that yields to an accurate prediction of both magnitude and locations of future electric loads in the Sri Lankan context. This paper also discusses about fuzzy logic technique which is primarily used to decide the consumer classes based on membership functions which are derived using actual data instead of the more traditional approaches. Finally it will conclude with a discussion of the suitability of the proposed model to Sri Lanka.