

CONCEPT OF CONDITIONAL REFERENCE PRIOR IN THE STUDY OF GENOTYPIC VARIATION

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ABSTRACT

As genetic diversity is a valuable tool for plant breeding and screening promising genotypes. The increase in population and the subsequent rise in the demand for agricultural produce are expected to be greater in regions where production is already insufficient, in particular in South Africa and South Asia. The necessary increase in agricultural production represents a huge challenge to local farming systems and must come mainly from increased yield per unit area. To meet this requirement various crop improvement programmers have been initiated around the globe. Under any crop improvement programme a sample of promising genotypes are performance tested every year. To obtain good samples of genotypes many researchers studying the genotypic variation between/ within genotypes. In this addition to this chain an attempt is to make to evaluate the loss of information during the study of these genotypes using the conditional reference prior. It is observed that that an integrated likelihood approach for studying genotypic variation obtained by using a conditional reference prior is equal to the marginal likelihood approach for parameter obtained by the non-centrality parameter.

KEYWORDS: Genotypic Variation, Conditional Reference Prior, Non-Centrality Parameter, Marginal Likelihood Etc

Original Article

Received: Oct 13, 2015; **Accepted:** Nov 24, 2015; **Published:** Nov 26, 2015; **Paper Id.:** IJASRDEC201538