

ASYMPTOTIC NORMALITY OF STATISTICS  
IN CLUSTERING, CONTAGION AND  
DIVERSITY

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SUBMITTED TO THE  
GRADUATE SCHOOL  
UNIVERSITY OF THE PHILIPPINES  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
DOCTOR OF PHILOSOPHY IN STATISTICS

March 1987

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SOS00543

## A B S T R A C T

It is shown that a unified approach to establishing conditions for the asymptotic normality of statistics in connection with clustering, contagion and diversity may be given by two central limit theorems for random variables with arbitrary index sets. New results as well as results of other authors using different methods are obtained by direct application of the two theorems. By applying the theorems in conjunction with other techniques, conditions for the asymptotic normality of statistics whose distributions were previously unknown are established.