

**Confidence Intervals for Process Capability  
Indices With Respect to Random Effects  
Models and Autocorrelated Data**

**Synopsis of the Ph.D. Thesis**

To be submitted in partial fulfilment of the  
requirements for the award of the Degree of

**DOCTOR OF PHILOSOPHY IN STATISTICS**

Under the Faculty of Science  
Mahatma Gandhi University, Kottayam, Kerala, India.

By

**JANE A. LUKE**

Assistant Professor

Department of Statistics, Newman College,  
Thodupuzha, Kerala-685 585, India.

Email: [janealuke@gmail.com](mailto:janealuke@gmail.com)

Under the Guidance of

**Dr. K. K. JOSE**

Principal & Former Head, Department of Statistics,  
St. Thomas College, Pala, Kerala-686 574, India.

Email: [kkjstc@gmail.com](mailto:kkjstc@gmail.com)

**June 2012**