Assessing the Proportion of Conformance of a Process from a Bayesian Perspective

Michael Perakis\textsuperscript{a} and Evdokia Xekalaki\textsuperscript{b}

A Bayesian technique for assessing the posterior probability that the proportion of conformance of a normally distributed process exceeds a particular value is suggested. Both exact and approximate formulae for the assessment of this probability are derived. Copyright © 2013 John Wiley & Sons, Ltd.

\textbf{Keywords}: statistical process control; proportion of conformance; posterior probability; process capability index