

Statistical Methodology for Ranking

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Abstract

It has become common to try to rank medical units in different ways. Hospitals may for instance be ranked with respect to success rates for some kind of operation and local medical care centers may be ranked with respect to service at the center by letting patients judge the service of the unit by a graded verbal scale with ordered categories. These types of investigations often give the estimated ranking without any quality measure. In the lecture I will present a simple general procedure which gives confidence interval estimates for the rank of units with any fixed confidence degree. The general method is exemplified to ranking with binomial data and ordered categorical data for the units.