	Home	Search	IDSC	Site Map	Contact	Member Login
IZA News						
About IZA	17.6					☐ I Z A
Organization Chart	IZA					
People	Calculating Confidence Intervals for Continuous and Discontinuous Functions of Estimated Parameters by John C. Ham, Tiemen Woutersen (June 2011)					
Research						
Labor Policy						
Publications	Abstract: The delta method is commonly used to calculate confidence intervals of functions of estimated parameters that are differentiable with non-zero, bounded derivatives. When the delta method is inappropriate, researchers usually first use a bootstrap procedure where they i) repeatedly take a draw from the asymptotic distribution of the parameter values and ii) calculate the function value for this draw. They then trim the bottom and top of the distribution of function values to obtain their confidence interval. This note first provides several examples where this procedure and/or delta method fail to provide an appropriate confidence interval. It next presents a method that is appropriate for constructing confidence intervals for functions that are discontinuous or are continuous but have zero or unbounded derivatives. In particular the coverage probabilities for our method converge uniformly to their nominal values, which is not necessarily true for the other methods discussed above. <b>Text:</b> See <u>Discussion Paper No. 5816</u>					
Discussion Papers						
Policy Papers						
Standpunkte						
Books						
Research Reports						
IZA Compact						
IZA in the Press						
Publication Record						
Journals	Back					
Events						
IZA Prize / YLE Award	© IZA Impressum Last updated: 2012-12-13 webmaster@iza.org   Bookmark this page   Print View					
Teaching						
Links / Resources						
Press						