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Bootstrapping confidence intervals.

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Summary: Technology is changing the statistical practice of inference. In response to these changes, we are investigating teaching approaches for introducing confidence interval concepts via the bootstrap method. In this chapter, we briefly describe the instruction sequence including the dynamic visualization software we have developed. Some results from our pilot study, involving ten secondary school and university students, are presented. The implications of the findings for further research and development of inferential concepts are discussed.

Classification: K75 U75

Keywords: secondary-university students; dynamic visual imagery; statistics instruction

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