

Possible Reasons for and Consequences of Generalizing Subgroup-Based Measurement Results to Populations: Based on Research Studies Conducted by Elementary Teachers in South Korea

Authors : Jaejun Jong

Abstract : Many teachers in South Korea conduct research to improve the quality of their instruction. Unfortunately, many researchers generalize the results of measurements based on one subgroup to other students or to the entire population, which can cause problems. This study aims to determine examples of possible problems resulting from generalizing measurements based on one subgroup to an entire population or another group. This study is needed, as teachers' instruction and class quality significantly affect the overall quality of education, but the quality of research conducted by teachers can become questionable due to overgeneralization. Thus, finding potential problems of overgeneralization can improve the overall quality of education. The data in this study were gathered from 145 sixth-grade elementary school students in South Korea. The result showed that students in different classes could differ significantly in various ways; thus, generalizing the results of subgroups to an entire population can engender erroneous student predictions and evaluations, which can lead to inappropriate instruction plans. This result shows that finding the reasons for such overgeneralization can significantly improve the quality of education.

Keywords : generalization, measurement, research methodology, teacher education

Conference Title : ICCTE 2023 : International Conference on Curriculum and Teacher Education

Conference Location : New York, United States

Conference Dates : April 24-25, 2023