BRIEF ARTICLE

THE AUTHOR

1. Testing Two Sample Hypotheses

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Solution 1.6-1
$H_0 : \mu_1 = \mu_2$ vs. $H_0 : \mu_1 \neq \mu_2$

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Solution 1.6-2
From the t-distribution table, choose df row 10 and column significance level 0.05.
Student's t distribution, $CV = \pm 1.8125$

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Solution 1.6-3
The test statistics is $|-1.66|$ and significance level is 1.8125. Since the test statistic is less than the significance level, fail to reject H_0.

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Solution 1.6-4
$H_0 : P_1 = P_2$ vs. $H_A : P_1 \neq P_2$

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Solution 1.6-5
Standard Normal (z) distribution, $Z = \pm 1.96$.

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Solution 1.6-6
Conclude that there is a difference, since the test statistic (z = 2.04) is greater than the critical value (z = 1.96). Therefore, reject H_0