Construction of PBIB Designs through Chosen Lines and Triangles of Graphs

Davinder Kumar Garg[1], Syed Aadil Farooq[2]

[1]*Department of Statistics, Punjabi University, Patiala-147002 (India)*
[2]*Research Scholar, Department of Statistics, Punjabi University, Patiala-147002 (India)*

ABSTRACT

In this paper, we have constructed partially balanced incomplete block (PBIB) designs with two and three associate classes by establishing a link between PBIB designs and graphs through the chosen lines and the number of triangles. We have considered six configurations for this purpose and constructed four two associate class PBIB designs and two three associate class PBIB designs.

Keywords: *PBIB designs, Graphs, paths, points, lines, triangles*

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