

**Hong, Seok-Hee**

**MultiPlane: A new framework for drawing graphs in three dimensions.** (English)

[Zbl 1171.68622](#)

Healy, Patrick (ed.) et al., Graph drawing. 13th international symposium, GD 2005, Limerick, Ireland, September 12–14, 2005. Revised papers. Berlin: Springer (ISBN 3-540-31425-3/pbk). Lecture Notes in Computer Science 3843, 514-515 (2006).

Summary: This poster presents a new framework for drawing graphs in three dimensions, which can be used effectively to visualise large and complex real world networks.

The new framework uses a divide and conquer approach. More specifically, the framework divides a graph into a set of smaller subgraphs, and then draws each subgraph in a 2D plane using well-known 2D drawing algorithms. Finally, a 3D drawing of the whole graph is constructed by combining each drawing in a plane, satisfying defined criteria.

For the entire collection see [[Zbl 1097.68006](#)].

**MSC:**

- [68R10](#) Graph theory (including graph drawing) in computer science
- [68U05](#) Computer graphics; computational geometry (digital and algorithmic aspects)
- [05C85](#) Graph algorithms (graph-theoretic aspects)

**Software:**

[MultiPlane](#)

**Full Text:** [DOI](#)