

1096-AE-2761 **Michael J. Pelsmayer*** (pelsmajer@iit.edu). *Superfluous crossings*.

Usually the first goal when drawing a graph is to avoid edge crossings. Under the right conditions, certain types of crossings can be removed from a drawing. Our prototypical example is the following theorem of Hanani and Tutte:

If every pair of edges crosses an even number of times in a graph drawing, then the graph can be redrawn with no crossings.

There has been a lot of exciting work of a similar flavor in recent years. We will survey the field, with an emphasis on proof techniques and open problems. (Received September 18, 2013)