

Geographic Network Visualization Techniques: A Work-In-Progress Taxonomy

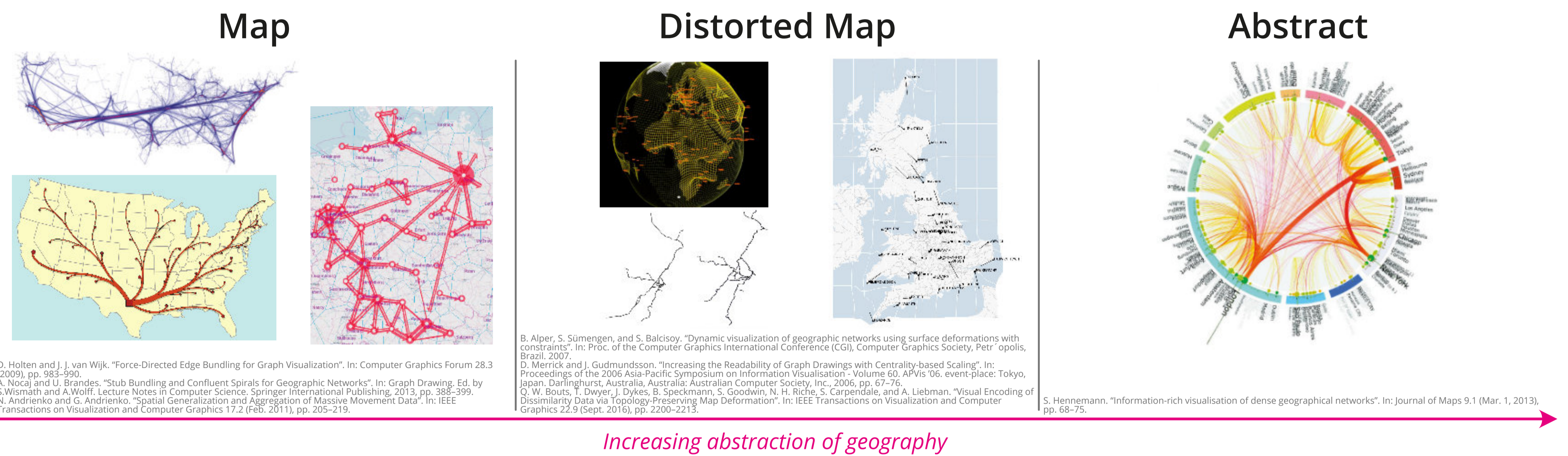
This poster presents a survey of visualization techniques for geographic networks. Based on 60 techniques, we provide an initial taxonomy based on categorizing each technique across four facets: how the geographic aspect is represented, how the network aspect is represented, how these two visual representations are integrated, and whether the technique relies on user interaction.

The current collection can be found online:

geographic-networks.github.io

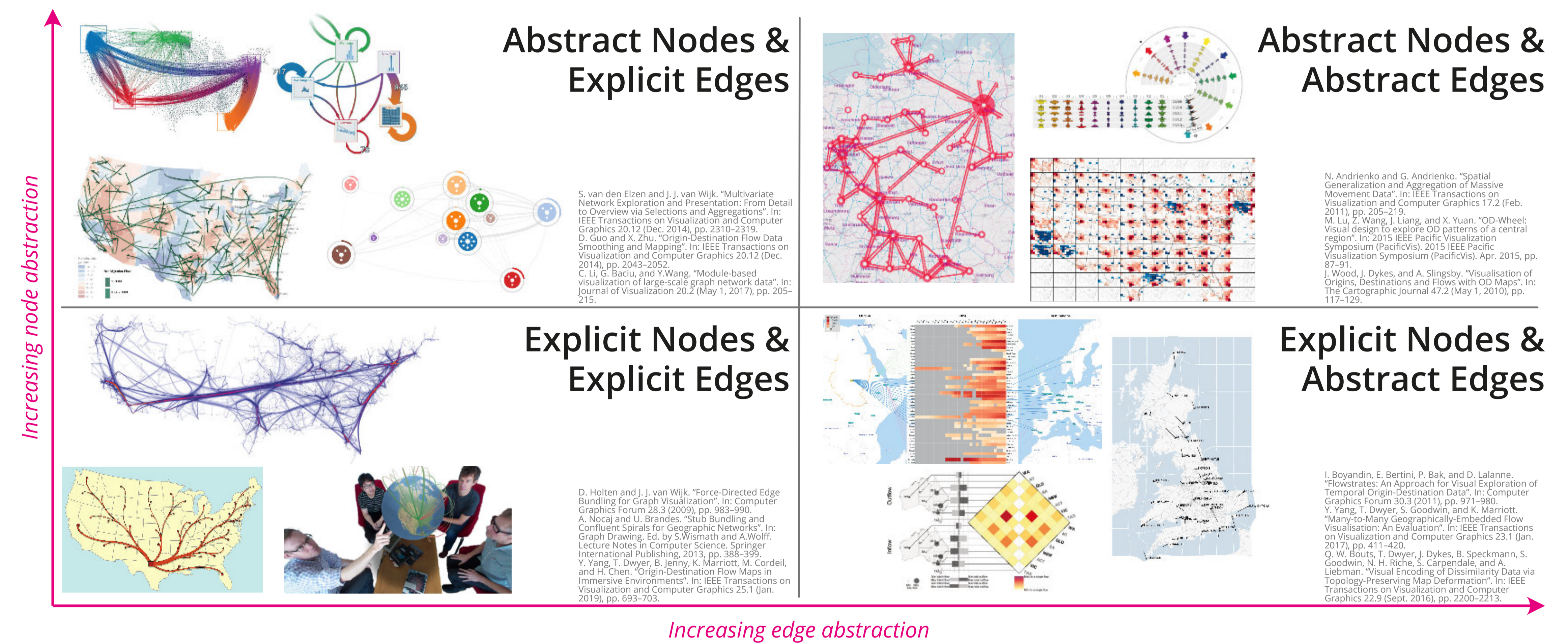
Geography Representation

The first facet describes how the geography is represented. Techniques are classified as maps, distorted maps, or abstract representations, representing a range from least to most abstract.



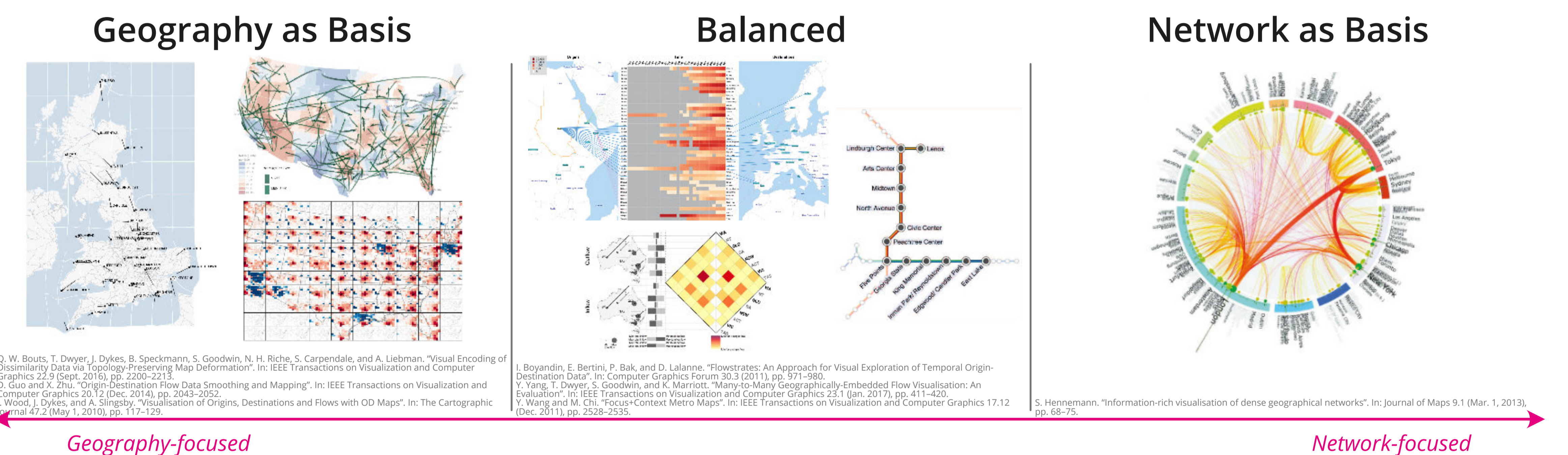
Network Representation

The second facet describes the network representation based on whether the nodes and edges are represented in an explicit or abstract manner respectively, resulting in four categories in total.



Integration

The third facet describes how these two representations are integrated: primarily based on the geography representation, primarily based on the network representation, or balanced between the two.



Interaction

The fourth facet describes to what extent each visualisation technique relies on user interaction, ranging from not at all to the technique being purely an interaction technique.

