Don't forget your name and other information in the Byline.

Synonyms would be other words or phrases that define the same topic. This may include a list of similar topics that would refer to the same information. (ie. Transitive Set may be close enough for your purpose here.)

The first sentence in the definition is not clear. I can't tell how many sets you have, or what is what. I think you mean to say that if Y is an element of X, and X is a subset of S, then Y is an element of S. Reword this to be more clear.

Be careful with the use of we. If you say we, it is unclear if this has been proven or if you are simply saying it.

“A function mapping values from input to output is ... which are...” is the binary relation single or plural?

Good definition scope. Nicely done.

Use the format for the final article. This will make it more readable and easier to focus on the particular part of the article that you are working on.

First paragraph of Main text appears to be a restatement of some of the definition.

The use of “In fact” makes this appear as if it is contributing something novel. Is this the case?

There is a good scientific background to the topic. Plenty of information on that topic.

Key applications are defined

Are there any other key applications where this would be useful...any specific areas where this property may be beneficial...types of problems (more specific examples? Any extended areas where the problem of databases could be applied. Any ideas of how this would be related to GIS?)

Paragraph that starts “Besides, for evaluating...” I am not sure what you are besiding.

Where should I go to find more information on the “Warshall's algorithm?”

Do you have any citations that could be added to give some depth to the article?

What future directions do you see the work going towards. Has this lead to any other discoveries, are there any areas that you could see it causing further research?

What is the background of how it was developed? Who thought of it, how did the idea become defined.

Do you have a proof for why it works, or can you cite where a proof of it exists?

There is a lot of good information in here. Dividing it up will make it easier to read. Also, consider expanding the references so that there is more for a person to read. Are there any good books on the subject?

Are there any other related topics that could be useful? It seems that there should be some related things, that a person may want to know. Other key words which would assist in the would be beneficial if the user would read to assist in understanding your article?

Could you provide some diagrams. A picture explaining the property may assist greatly in understanding what the problem consists of.