W203 Pre-class 3, Shan He

1. Schoenmakers and Duysters are particularly interested in radical inventions. Explain what their conceptual definition is and how it is related to their operational definition.

Ans: Those inventions that serve as a basis for many successive inventions; And they are characterized as patents that are cited the most.

1. In your opinion, does the author’s operational definition of radical invention have validity? (does it have face validity? construct validity?)

Ans: Yes; It does have face validity as it looks like a measure of the construct of interest. It also has the construct validity as it uses relevant data for analysis.

1. If you believe there is a discrepancy between the author’s operational definition of radical invention and the intended concept, how could this affect their conclusions? What factors, other than whether an invention is radical, could be driving their results?

Ans: If so, the results from the analysis related to the operational definition can be misleading. The number of citations could also depend on the scale of the application market for a certain patent

1. In what other ways could you operationalize the concept of radical invention?

Ans: we could also investigate the impact of the inventions – awards won, increase in monetary volume in the industries.