Nonlinear Processes
in Geophysics
Discussions

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Interactive comment on "Study on connectivity mechanism and robustness of three-dimensional pore network of sandstone based on complex network theory" *by* Guannan Liu et al.

Anonymous Referee #2

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I have a serious concern about this manuscript as I have the feeling that the authors have a nice idea to study and explore and they haven't analyzed deeply in this subject. The conclusions at the end show that still they have a long run to go. For example, when they say "robustness of seepage network" they don't really analyze it. What they do is a "random attack" and calculate again some network parameters but not a robustness study. I really encourage the authors to improve this initial work to achieve the standards of the journal. Minor comments: Page 1 line 15, you write references [1-3] and normally you don't include references in the abstract. line 19, define "network magnitude" line 23, in this context I suggest to replace the expression "random attacks" for other one more suitable to sandstones. Page 3 line 24, please you should describe

the binarization method. Page 8 Figure 5, how do you select the points to include in the linear regression? which is the error in the estimation of the slopes? Page 10 Figure 6, please include the label in the y-axis

Interactive comment on Nonlin. Processes Geophys. Discuss., https://doi.org/10.5194/npg-2017-21, 2017.