

Dimension	Question	Recommendation in [8]
<i>Experimental Context</i>	Does the introduction contain the industrial context (entities, attributes, and measures) and description of the techniques to be reviewed? For experiments that evaluate techniques developed in industry. (Q1)	In experiments evaluating techniques developed in industry, experimenters should understand how the technique works in the industrial setting before developing a version of the technique for experimental purposes. This is due to the fact that techniques developed in industrial settings are highly complex, and such complexity is difficult to reproduce in academia. The treatments that are tested in an experiment must be well defined in the report for the experiment to be able to be replicated or simply for the results to be able to be transferred to industry.
	Does the report summarize and discuss earlier similar experiments that have been conducted? (Q2)	Describing earlier research that is similar to this study and how they are related can help to build an integrated body of knowledge about a phenomenon in SE.
	Are the hypotheses being laid and are they synonymous with the goal discussed before in introduction? (Q3)	Specific hypotheses that are being tested in the study should be clearly established beforehand based on a theory.
<i>Experimental Design</i>	Does the researcher define the population from which objects and subjects are drawn? (Q4)	It is necessary to define the population from which the subjects and objects have been extracted to be able to extract inferences from the experimental results.
	Does the researcher define the process by which he applies the treatment to objects and subjects (e.g. randomization)? (Q6)	The subjects and objects should be allocated to the treatments in an unbiased manner so as not to compromise the experiment.
	Was randomization used for selecting the population and applying the treatment? (Q7)	The subjects and objects should be representative of the population to be able to extract conclusions from the experimental results.
	Does the researcher define the process from which the objects and subjects are selected (e.g. random sampling)? (Q5)	
	Is an appropriate blinding procedure used (e.g. blind allocation of materials, blind marking)? (Q10)	A double-blinding procedure, as run in medicine, is not possible in SE experiments, but other types of blinding are; these types of blinding can be applied to the allocation of materials, marking and analysis.
<i>Analysis</i>	Is an appropriate blinding procedure used (e.g. blind allocation of materials, blind marking)? (Q10)	The information on treatments should be somehow encoded to prevent analysts from knowing the treatment to which it corresponds and being able to introduce bias into the results of the analysis.
<i>Presentation of results</i>	Are the statistical significances mentioned with the results. (Q9)	The experiment should report the quantitative data including the effect size and the confidence limits.
<i>Interpretation of results</i>	Is mention made of the threats to validity and also how these threats affect the results and findings? (Q8)	Experimenters should discuss the limits of the study, at least threats related to internal and external validity.