Does Simulation Fidelity Affect Training? A Lesson from a Brief Review of Literature



Introduction

In training programs, fidelity of simulation is the level of surface realism of training materials [1].

Example: Troubleshooting electronic circuits



Fidelity

- Traditional assumption: simulators with higher training than those with lower fidelity [2, 3].
- **Recent findings question** were more effective in systems [4, 5].
- training systems [6].

Our goal is to review the literature to see the effect of fidelity on training in various domains.

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fidelity are more effective in

this assumption. In many cases, low-fidelity systems training than high-fidelity

This has caused problems as designers do not know what level of fidelity is suitable for



Maintenance and troubleshooting J Rouse [9] showed that, unlike high-fidelity systems,

low-fidelity training simulators could train skills that could be transferred to a wide variety of tasks. Other areas 4 Similar results were found in firefighting [10], route-learning [11], and some other areas.

Conclusion

- systems now?

Note. A comprehensive review on the same topic is in preparation. If you are interested to see the incoming review, please write down your email address and name.

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In many cases, low-fidelity systems are more effective in training than high-fidelity systems. So, fidelity is not a reliable construct in design. • The remaining question is how to design training

The future needs theories of design that focus on human elements of the training cycle (novices and experts) as a resource for designing training systems.

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