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Evaluation of preconditions affecting symptomatic human error in general aviation and air carrier aviation accidents

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RE&SS Update Highlights

- We thank the reviewers for their comments. Each comment has been considered individually and specific changes made to our paper. We have added one illustration to show the relationship between latent causal factors and symptomatic causal factors. We have also expanded the reference to symptomatic causal factors to include the terms direct cause and active cause. Both these additional terms have been defined as having the same meaning in different publications.
- We have accomplished a significant rewrite of sections #1 and #2 to eliminate any overlap. The introduction now includes a better description of the basis of our study and concentrates solely on introducing the general concepts and structure of the paper. Section #2 provides concentrated background information to better align the proportion with other similar articles in RE&SS.
- We have ensured the appropriateness of this article for RE&SS readers based on previously published articles. Our work is based in part on previous works referenced from RE&SS by Kim et al. and Theophilus et al. focused on human error and human factors analysis. Our intent is to align our work with the importance of system safety of deployed systems that include the human actor as a component that can positively or negatively affect system safety dependent on how well the human has been integrated into system operation.
- We have included some clarifying examples based on the crash of SpaceShipTwo. These references provide a vital backdrop for how human error can be analyzed as symptomatic driven by latent causal factors completely removed from the operating environment.
- We have clarified the significance of our results and contribution of our work in a revised discussion and conclusion section.
- Finally, the paper has also been professionally edited for language and grammar through the Elsevier WebShop to help to eliminate any usage or typographical errors.

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