



Identifying and Mitigating the Risks of Cockpit Automation: Wright Flyer Paper No. 14

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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 48 pages. Dimensions: 9.0in. x 6.0in. x 0.1in. Cockpit automation has delivered many promised benefits, such as improved system safety and efficiency; however, at the same time it has imposed system costs that are often manifest in the forms of mode confusion, errors of omission, and automation surprises. An understanding of the nature of these costs as well as associated influencing factors is necessary to design adequately the future automated systems that will be required for Air Mobility Command aircraft to operate in the future air traffic environment. This paper reviews and synthesizes human factors research on the costs of cockpit automation. These results are interpreted by modeling the automated cockpit as a supervisory control system in which the pilot works with, but is not replaced by, automated systems. From this viewpoint, pilot roles in the automated cockpit provide new opportunities for error in instructing, monitoring, and intervening in automated systems behavior. These opportunities for error are exacerbated by the limited machine coordination capabilities, limits on human coordination capabilities, and properties of machine systems that place new attention and knowledge demands on the human operator. In...



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