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Future challenges of accident investigation — Some insights from the 33rd ESReDA Seminar



Accident data for the Semantic Web

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<http://dx.doi.org/10.1016/j.ssci.2009.12.013>, [How to Cite or Link Using DOI](#)

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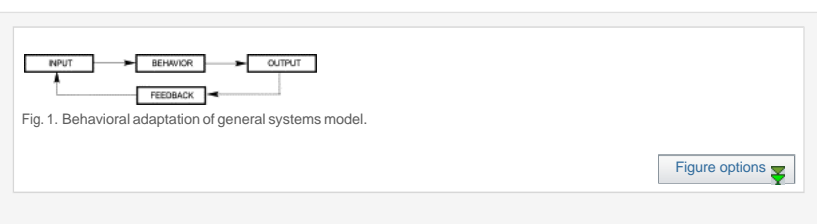
Abstract

This paper describes concerns about the documentation, dissemination and use of lessons learned from mishap investigations, impediments posed by current practices, and opportunities for improvement. Lessons are presently developed, documented and stored primarily in narrative form and relational databases, and disseminated in many forms and media, including the Internet. Current practices pose many impediments to maximized development, dissemination and use. Investigation process research and new data concepts behind the Semantic Web, exploited elsewhere, offer potential opportunities to overcome these impediments. To exploit these opportunities, formation of a working group to develop an improved Semantic Web-friendly mishap investigation lessons learning system is proposed. An example illustrating an alternative approach is described to support a reasonable expectation that an alternative lessons learning system could be developed.

Keywords

Lessons learned; Lessons learning system; Behavioral event sets; Accident investigation data structure; Event sets

Figures and tables from this article:



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Fig. 3. Investigation building block elements in XML document.

Figure options



Fig. 4. EBIO array of event sets: *Patent pending.*

Figure options

Fig. 5. Example of EBIO for selected event sets.

Figure options