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Design for maintainability based on virtual reality

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Maintainability and reliability are playing vital roles in all engineering disciplines. As the demand for systems with better performance at minimum cost increases, there is a requirement to minimize the failure probability and the need to the system recovery mechanisms and fault tolerance. However, history witnesses that maintainability design is lagging behind structure design. To solve this problem, VR based maintainability design method is proposed that validates maintainability design of a structure. This presentation aims at providing an overview on maintainability design and VR technology. Also, the required platform for integrating maintainability information into structured information, and limitations & complications will be discussed. Finally, the processes and feature/benefit matrix and maintenance metrics will be presented.

Biography

Kouroush Jenab received his BSc degree from the IE Department at the Isfahan University of Technology (1989), an MSc degree from the IE Department at Tehran Polytechnic (1992), and a PhD degree from the Department of Mechanical Engineering at the University of Ottawa (2005). He served as a Senior Engineer/Manager in auto, and high-tech industries for 20 years. He joined National Research Council Canada as a Research Officer. Currently, he is Faculty of College of Aeronautics and Embry-Riddle Aeronautical University, and Adjunct Professor at Athens State University, AL., Education Chair of SRE-Ottawa Chapter, and the VP of Journal and Conference Affairs - IAJC. He has published over 100 papers in international journals and conferences based on his experiences in industries.

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