

F/CFAT : An Approach for Combined Safety and Security Analysis

The screenshot shows the EssayPro website homepage. At the top, there is a navigation bar with the EssayPro logo, links for 'How To Order', 'Reviews', 'About Us', and 'Write My Essay', and user options for 'DBA: EPRO', 'Log In', and 'Sign Up'. The main banner features a student sleeping at a desk with a cup of pens. The text on the banner reads: 'WRITING SERVICE AT YOUR CONVENIENCE', 'You - Send us your homework We - Do it all for you', and 'Grab your original paper for just \$10 per page with a free plagiarism report included'. A 'Write My Essay!' button is present. A 'Calculate the price' widget is overlaid on the right, showing options for 'Writing', 'Rewriting', and 'Editing', a dropdown for 'Essay (any type)', a dropdown for 'College', a dropdown for '2 weeks', a field for '1 page / 275 words', and radio buttons for 'Double spaces' (selected) and 'Single spaces'. The price is listed as '\$11.4' with a flame icon, and a 'Write My Paper' button is at the bottom. Below the banner, there are three rating sections: 'EssayPro Reviews' with a 4.9 rating and five stars, 'ResellerRatings' with a 4.9 rating and five stars, and 'Sitejabber' with a 4.8 rating and five stars.

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I. INTRODUCTION System safety is a complex concept, which is represented by multiple attributes and which requires diverse sources of evidence to demonstrate its achievement. Safety-critical systems, which provide safety-critical services to their users, must be designed to be safe. This means that despite their complexities and despite variable environmental conditions, their operation should be demonstrably safety. A fundamental difficulty in measuring system safety arises due to the complexity of the notion – it is made up of multiple, potentially conflicting attributes, and difficult trade-offs may need to be made between these attributes. The attributes themselves are evaluated using multiple diverse sources of evidence, thus compounding the problem of measuring system safety. Software safety has become an ever increasingly important issue in system safety due to the larger role software plays in complex cyber-physical systems. Such a system is a consisted of a number of components distributed over a predefined space. Components of a typical cyber-physical system communicate with each other and with an external world through communication gateway. The safety failures of the components of such a system result in safety hazard of the whole system. Additionally, external attackers can attack the system through sensor network and communication gateway and can manipulate software

processes and data stored and exchanged in the system. Over the last decades a good many number of safety analysis methods (i.e., FMEA, HAZOP, FTA) have been developed. Among them Fault Tree Analysis (FTA) [1] is a widely accepted method. It graphically shows how basic failures of components, in combination, cause a safety hazard at the system level..... middle of paperand System Safety Analysis". IASTED'04.[4] J. Xiang, K. Ogata and K. Futatsugi. "Formal Fault Tree Analysis of State Transition Systems". QSIC'05.[5] K. M. Hansen, and A. P. Ravn. "From Safety Analysis to Software Requirements". IEEE Transactions on Software Engineering 24(7). 1998.[6] D. Coppit, K. J. Sullivan and J. B. Dugan. "Formal Semantics of Models for Computational Engineering: a Case Study on Dynamic Fault Trees". ISSRE'00.[7] G. Schellhorn, A. Thums and W. Reif. "Formal Fault Tree Semantics". WCIDPT'02.[8] W. Reif, G. Schellhorn, and A. Thums. "Safety Analysis of a Radio-Based Crossing Control System using Formal Methods". IFAC'00.[9] B. Kaiser. "A Fault-Tree Semantics to Model Software-Controlled Systems". Softwaretechnik-Trends 23(3). 2003.[10] B. Kaiser, P. Liggesmeyer and O. Maeckel. "A New Component Concept for Fault Trees". SCS'03.

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