

Fram The Functional Resonance Analysis Method Modelling Complex Socio Technical Systems

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Fram The Functional Resonance Analysis

This is captured by the principle functional resonance that is the basis for the FRAM. THE FRAM is a method to analyse how work activities take place either retrospectively or prospectively. This is done by analysing work activities in order to produce a model or representation of how work is done.

FUNCTIONAL RESONANCE

The Functional Resonance Analysis Method or FRAM (Hollnagel, 2004 & 2012) provides a way to describe outcomes using the idea of resonance arising from the variability of everyday performance. To arrive at a description of functional variability and resonance, and to lead to recommendations for damping unwanted variability, a FRAM analysis consists of four steps:

Brief introduction to FRAM - FUNCTIONAL RESONANCE

But there has not yet been a comprehensive method for doing so; the Functional Resonance Analysis Method (FRAM) fulfils that need. Whereas commonly used methods explain events by interpreting them in terms of an already existing model, the FRAM is used to model the functions that are needed for everyday performance to succeed.

FRAM: The Functional Resonance Analysis Method: Modelling ...

About the Functional Resonance Analysis Method (FRAM) The purpose of the FRAM is to analyse how something has been done, how something is done, or how something could be done in order to produce a representation of it in a reliable and systematic manner, using a well-defined format. This resulting representation is effectively a model of the

The Functional Resonance Analysis Method

The Functional Resonance Analysis Method or FRAM (Hollnagel, 2004 & 2012) provides a way to describe outcomes using the idea of resonance arising from the variability of everyday performance.

Systems Thinking for Safety/Functional Resonance Analysis ...

Introduction to FRAM: The Functional Resonance Analysis Method Professor Erik Hollnagel University of Southern Denmark Odense, Denmark ... Principles for FRAM The principle of equivalence of successes and failures. I ... Functional resonance.

Introduction to FRAM: The Functional Resonance Analysis Method

The FRAM is a method-sine-model rather than a model-cum-method. The use of the FRAM therefore involves two stages. The first is using the FRAM to develop a model of the activity (process or performance) that is the focus of the analysis. The second is to use the model to create instantiations of the activity (or performance) and then to analyse these.

How to build a FRAM model - FUNCTIONAL RESONANCE

Against this background, the resilience engineering literature offers an approach known as Functional Resonance Analysis Method (FRAM), which allows for modeling interactions between functions in...

(PDF) FRAM: The Functional Resonance Analysis Method ...

Woltjer, R. (2007). A systemic functional resonance analysis of the Alaska Airlines flight 261 accident. Human Fact. Econ. Aspects Saf., 83 ... Analysis of Comair flight 5191 with the functional resonance accident model. In: Proceedings of the 8th International Symposium of the Australian Aviation Psychology Association. ... the FRAM has been ...

Practice - FUNCTIONAL RESONANCE

myFRAM is thus an open tool to support the applicability of the FRAM (Functional Resonance Analysis Method) for socio-technical system analysis, in line with the principles of Resilience Engineering. myFRAM was officially released during the 12th FRAMily meeting and workshop - Cardiff (11-13 June 2018).

myFRAM | functionalresonance.com

The Functional Resonance Analysis Method (FRAM) is a method for modelling complex organisational systems (Hollnagel, 2012) derived from Resilient Health Care theory (Braithwaite et al., 2015, Cook, 2006), which is concerned with how success is achieved through adaptation in complex environments (Anderson et al., 2016, Hollnagel et al., 2013).

A systems approach using the functional resonance analysis ...

The development of the Functional Resonance Analysis Method (FRAM) has been motivated by the perceived limitations of fundamentally deterministic and probabilistic approaches to understand complex systems' behaviour.

Framing the FRAM: A literature review on the functional ...

FRAM - The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems.

FRAM

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems - Kindle edition by Hollnagel, Erik. Download it once and read it on your Kindle device, PC, phones or tablets. Use features like bookmarks, note taking and highlighting while reading FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems.

FRAM: The Functional Resonance Analysis Method: Modelling ...

In the FRAM-based analysis (FRAMA), the derivation of rules describing function variability (RFV) is highlighted to understand the influence of system elements on each other, as well as to determine how the various performance of functions can occur and aggregate.

FRAMA: A safety assessment approach based on Functional ...

The Functional Resonance Analysis Model (FRAM) defines a systemic framework to model complex systems for accident analysis purposes.

The use of Functional Resonance Analysis Method (FRAM) in ...

But there has not yet been a comprehensive method for doing so; the Functional Resonance Analysis Method (FRAM) fulfils that need. Whereas commonly used methods explain events by interpreting them in terms of an already existing model, the FRAM is used to model the functions that are needed for everyday performance to succeed.

FRAM: The Functional Resonance Analysis Method Modelling ...

Book Review; Published: 29 August 2012 Erik Hollnagel: FRAM: The functional resonance analysis method, modeling complex socio-technical systems. 2012, Ashgate, ISBN 978-1-4094-4551-7, Paperback, £20.00, ISBN 978-1-4094-4552-4, Hardcover, £65.00

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