

Formalisms For Reuse And Systems Integration Advances In Intelligent Systems And Computing

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Formalisms For Reuse And Systems

Reuse and integration are defined as synergistic concepts, where reuse addresses how to minimize redundancy in the creation of components; while, integration focuses on component composition. Integration supports reuse and vice versa. These related concepts support the design of software and systems for maximizing performance while minimizing cost.

Formalisms for Reuse and Systems Integration | Thouraya ...

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Formalisms for Reuse and Systems Integration | SpringerLink

Formalisms for reuse and systems integration. [Thouraya Bouabana-Tebibel; S Rubin;] -- Reuse and integration are defined as synergistic concepts, where reuse addresses how to minimize redundancy in the creation of components; while, integration focuses on component composition. ...

Formalisms for reuse and systems integration (eBook, 2015 ...

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Formalisms for Reuse and Systems Integration. (eBook, 2015 ...

Our proposal is given in Fig.2. In this proposal, formalisms can reuse exist-ing formalisms: for example, Parametric Timed Automaton reuses the syntactic features of Timed Automaton. Other formalisms can be de ned as a restricted version of an existing formalism: this is the case of Linear Hybrid Automaton

A Modular Approach for Reusing Formalisms in Veri cation ...

A Modular Approach for Reusing Formalisms in Verification Tools of Concurrent Systems Author 0.5cm Étienne André, Benoît Barbot, Clément Démoulin, Lom Hillah, Francis Hulin-Hubard, Fabrice Kordon, Alban Linard, Laure Petrucci

A Modular Approach for Reusing Formalisms in Verification ...

Cell Modeling with Reusable Agent-based Formalisms Ken Webb Tony White* School of Computer Science Carleton University, Canada ... systems biologists in their models. A red blood cell is embedded in a straight-forward manner ... demonstrates reuse of the architectural principles and sample components developed in section 3.

Cell Modeling with Reusable Agent-based Formalisms

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(PDF) A Modular Approach for Reusing Formalisms in ...

System design cannot rely on ad hoc tweaking techniques. A rigorous design discipline is crucial to boost productivity and enforce design correctness. We are investigating modeling paradigms, algorithms, design methodologies, design flows, and supporting tools to enable compositional and hierarchical design of complex cyber-physical systems, with emphasis on systems enabled by artificial ...

Formalisms for Cyber-Physical System Specification ...

Formalisms for Reuse and Systems Integration Workshop on Formal Methods Integration FMI 2014 : Formalisms for Reuse and Systems Integration pp 173-202 | Cite as

A Model-Based Approach for User Requirements Decomposition ...

Interconnecting Formalisms: Supporting Modularity, Reuse and Incrementality. ... Extensible software systems have been increasingly demanded as a means of supporting in a more faithful way ...

Interconnecting Formalisms: Supporting Modularity, Reuse ...

formalisms facilitates reuse by identifying and exposing all the ways a computerized intervention can be parameterized (e.g., tailoring parameters, behaviors, etc.), what its inputs and outputs are (to facilitate interoperability), and how its components (task models and the data they depend on) can be extracted and recombined into new systems.

A Reusable Framework for Health Counseling Dialogue ...

In Formalisms for Reuse and Systems Integration, Advances in Intelligent Systems and Computing, Vol 346, 1-25, Springer International Publishing, 2015. Canopy Pruning Grade Classification Based on Fast Fourier Transform and Artificial Neural Network Yongni Shao, Li Tan, Bolong Zeng, Qin Zhang

Bolong Zeng | School of Electrical Engineering & Computer ...

Max Battery Capacity • Nominal: 115,000 J • Reduced: 100,000 J On-board energy . Orbital Altitude • Nominal: 811 km x 457 km • Low: 593 km x 250 km

INCOSE Model -Based Systems Engineering (MBSE) CubeSat ...

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Reducing and Reusing Basics | Reduce, Reuse, Recycle | US EPA

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Validation and Verification - Alternative Assessment ...

An Ohio-based research group just got expedited FDA approval of its PPE decontamination system after pleas to the White House from the governor. The system cleans up to 80,000 pieces of PPE at a time.

Technology To Clean And Reuse PPE Is Being Deployed To ...

Papers may address these topics in a variety of ways, including new tools (such as languages, program analyses, and runtime systems), new techniques (such as methodologies, design processes, code organization approaches, and management techniques), and new evaluations (such as formalisms and proofs, corpora analyses, user studies, and surveys).

Object-oriented Programming, Systems, Languages, and ...

Finally, the systems biology investigation was formalized for reuse in future investigations [f3= F(r2)]. These cycles of reuse are a model for the general reuse of scientific knowledge. Keywords: semantic web, logic, Saccharomyces cerevisiae, ontology

On the formalization and reuse of scientific research

Systematic reuse is both, a scientific and an engineering process. The part of systematic reuse that deals with domain analysis and model development can be molded in the scientific method while the use of domain models for system development and for creating and reusing reusable components fits the engineering method.