Arrowhead Tools for Engineering of Digitalisation Solutions

Results

Project Information

**Arrowhead Tools**
Grant agreement ID: 826452

**Status**
Ongoing project

**Start date**
1 May 2019

**End date**
31 July 2022

**Funded under**
H2020-EU.2.1.1.7.

**Overall budget**
€ 90 632 388,97

**EU contribution**
€ 22 761 456,40

**Coordinated by**
LULEA TEKNISKA UNIVERSITET
Sweden

Deliverables

**Documents, reports (5)**

- **Tool Chain design for Y1**
  Tool chain architecture design and reference definition. How tools integrates. In governed repository. For Year 1.

- **Standardisation report Y1**
  Standardisation effort report year 1

- **Procedure model**
  Consolidated and elaborated system engineering procedure model.
Training and verification plan for Y1
Training and education material. Training plan. Conformity criteria and verification methods. For Year 1.

Standardisation base line
Standardisation base line

Other (1)

SOA framework platform for Y1
Consolidated SOA framework platform architecture, design and sw implementations of core systems. For targeted SOA frameworks and tool chain architecture. For Year 1. Report.

Publications

Peer reviewed articles (2)

Security Standard Compliance and Continuous Verification for Industrial IoT
Author(s): Ani Bicaku Markus Tauber Jerker Delsing
Published in: International Journal of Distributed Sensor Networks, 2020, ISSN 2158-2440

An Energy-efficient Distributed TDMA Scheduling Algorithm for ZigBee-like Cluster-tree WSNs
Author(s): Aasem Ahmad, Zdenek Hanzalek
Published in: ACM Transactions on Sensor Networks, Issue 16/1, 2020, Page(s) 1-41, ISSN 1550-4859
DOI: 10.1145/3360722

Conference proceedings (6)

Static Deadlock Detection in Frama-C
Author(s): Tomas Dacik
Published in: Proceedings of the Excel@FIT Student Conference, 2020

Computational Effort of BDD-based Supervisor Synthesis of Extended Finite Automata
An Engineering Process model for managing a digitalised life-cycle of products in the Industry 4.0

Author(s): Sander Thuijsman, Dennis Hendriks, Rolf Theunissen, Michel Reniers, Ramon Schifferlers
Published in: 2019 IEEE 15th International Conference on Automation Science and Engineering (CASE), 2019, Page(s) 486-493
DOI: 10.1109/coase.2019.8843327

An interoperable tool-chain for energy monitoring applications

Author(s): Urgese Gianvito, Azzoni Paolo, van Deventer Jan, Delsing Jerker, Macii Enrico
Published in: Workshop on Management for Industry 4.0 at IEEE Noms 2020, Issue 20/04/2020, 2020, Page(s) 6

From Models to Management and Back: Towards a System-of-Systems Engineering Toolchain

Author(s): Davide Brunelli, Tullio Salmon Cinotti, Hugo Woehrl, Cristiano Aguzzi, Federico Montori, Luca Benini
Published in: 2019 AEIT International Annual Conference (AEIT), 2019, Page(s) 1-6
DOI: 10.23919/AEIT.2019.8893354

Improved Analytical Model of Induction Machine for Digital Twin Application

Author(s): Géza Kulcsár, Kadosa Koltai, Szvetlin Tanyi, Bálint Péceli, Ákos Horváth, Zoltán Micskei, Pál Varga
Published in: Workshop on Management for Industry 4.0 at IEEE NOMS 2020, Issue 2020 April 20, 2020

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