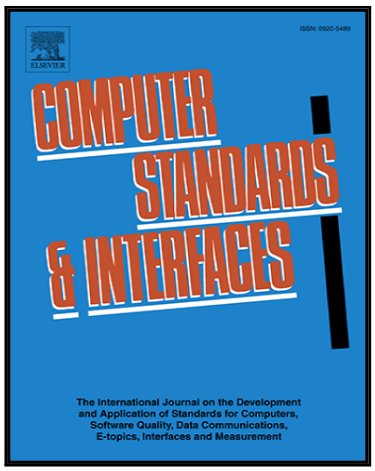

Generation of Feasible Deployment Configuration Alternatives for Data Distribution Service Based Systems

Bedir Tekinerdogan , Turgay Çelik , Ömer Köksal

PII: S0920-5489(17)30299-4
DOI: 10.1016/j.csi.2018.01.002
Reference: CSI 3262

To appear in: *Computer Standards & Interfaces*

Received date: 28 July 2017
Revised date: 23 November 2017
Accepted date: 9 January 2018

Please cite this article as: Bedir Tekinerdogan , Turgay Çelik , Ömer Köksal , Generation of Feasible Deployment Configuration Alternatives for Data Distribution Service Based Systems, *Computer Standards & Interfaces* (2018), doi: 10.1016/j.csi.2018.01.002

Highlights

- Metamodel for supporting implementation of the DDS UML profile
- Extension and Implementation of the DDS UML Profile
- Systematic approach for Generating DDS Configuration Alternatives
- Toolset for modeling DDS applications and the generation of configuration alternatives
- Illustration of the problem for a real Internet of Things application
- Evaluation of the approach using different task allocation algorithms
- Discussion and lessons learned for DDS configuration