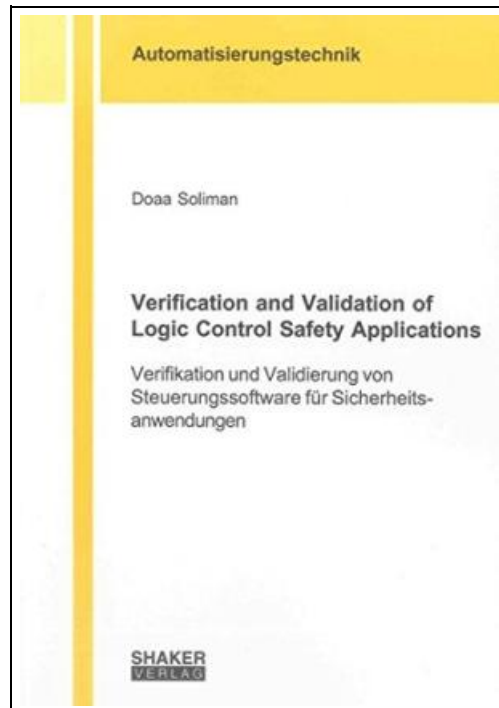


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VERIFICATION AND VALIDATION OF LOGIC CONTROL SAFETY APPLICATIONS



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Shaker Verlag Mrz 2013, 2013. Buch. Condition: Neu. Neuware - In this work, an approach was introduced to facilitate the verification process of safety applications built up from the PLCopen (2006) safety library. This approach is practiced with the help of safety applications used in real life, presented by PLCopen (2008). It was discovered that the verification approach is applicable and most helpful. This encouraged the researchers to think about the automation of the presented approach; More precisely, to automate the transformation process of a safety application to a formal model to be verified via the UPPAAL model checker. However, many difficulties had to be faced in order to realise a transformation tool. Since the presented transformation approach is based on an XML platform, it is necessary to find an IEC 61131-3 programming tool that supports not only the PLCopen safety library, but also the exportation of the PLCopen XML scheme. Unfortunately, a qualified IEC 61131-3 programming tool did not exist at the time the research was undertaken. However, many software producers have future plans to support all required features. To overcome these difficulties, steps were taken to integrate the needed features in the partially qualified IEC 61131-3 tool. It was the MultiProg tool from KW-Software, which supported the exportation of PLCopen XML schema, but not the PLCopen safety library. This therefore, made it necessary to implement a user defined PLCopen safety library to be used in constructing safety applications with the MultiProg tool. This implemented safety library was then directly verified using the [mc]square model checker, which was joint work with the Embedded Software Laboratory (Prof. Kowalewski), RWTH Aachen University, Germany. Finally, a qualified IEC 61131-3 programming tool was available. Consequently, an exported PLCopen XML from a safety application could be handled. As a first step to realising a...



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