

Title (en)  
AUTOMATED METHOD BASED ON MODELS FOR GENERATING PHYSICAL ARCHITECTURES OF SYSTEMS AND OPTIMISING SAME

Title (de)  
AUTOMATISIERTES VERFAHREN BASIEREND AUF MODELEN ZUR ERZEUGUNG VON PHYSIKALISCHEN ARCHITEKTUREN VON SYSTEMEN UND IHRE OPTIMIERUNG

Title (fr)  
PROCEDE AUTOMATIQUE BASE SUR DES MODELES POUR LA GENERATION D'ARCHITECTURES PHYSIQUES DE SYSTEMES ET LEUR OPTIMISATION

Publication  
**EP 2734943 A2 20140528 (FR)**

Application  
**EP 12735148 A 20120716**

Priority  
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• EP 2012063876 W 20120716

Abstract (en)  
[origin: US2014172396A1] A method for generating and optimizing physical system architecture by modeling a problem in the form of a model. The physical architectures (AP1, AP2, . . . , APN) are generated using the model and algorithm that searches for a function with viable and valid combination of components. The physical architectures are evaluated according to a plurality of attributes or criteria using analysis modules based on the model. A part of the physical architectures is selected based on dominance relations. New physical architectures (AP'1, AP'2, . . . , . . . , AP 'N) are generated by applying genetic operators to the physical architectures (AP1, AP2, . . . , APN). The results are synthesized by retaining a part of the physical architectures.

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**G06F 30/00** (2020.01 - EP US); **G06F 30/20** (2020.01 - US); **G06F 30/30** (2020.01 - EP US)

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**WO 2013010974 A2 20130124**; EP 2734943 A2 20140528; FR 2978265 A1 20130125; US 2014172396 A1 20140619

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