



Contribution to the Design of a Matrix to Analyse and Classify Problem Solving Methods According to Performance Criteria

Martin Fritz

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Diploma Thesis from the year 2006 in the subject Engineering - Mechanical Engineering, grade: 1,0, University of Stuttgart (Institut für Arbeitswissenschaften und Technologiemanagement), 120 entries in the bibliography, language: English, abstract: METHODENMATRIX ZUR TECHNISCHEN PROBLEMLÖSUNG: Die Ergebnisse und der Stand der Arbeit sollen nachfolgend kurz zusammengefasst werden: Zu den verschiedenen Problemlösungsmethoden existieren zahlreiche Beschreibungen in der Fachliteratur. Als beispielhafte Veröffentlichung kann Eversheim(2003) genannt werden, welcher die Methoden klassifiziert und einen Überblick über ihren Einsatz bietet. In ähnlicher Weise werden in dieser Arbeit Problemlösungsmethoden dargestellt, klassifiziert und bewertet. Der Schwerpunkt dieser Arbeit ist jedoch eine explizite Berücksichtigung des Problemcharakters und der Methodenauswahl. Dazu wurden zwei Kriterienkataloge entwickelt: einer zur allgemeinen Bewertung der Methodenleistung und einer zur Bewertung der problem-spezifischen Methodenleistung. An Hand dieser Kataloge und unter zu Hilfenahme von Literatur und Beispielproblemen wurden die Methoden bewertet. Die Beispielprobleme und ihre Lösungskonzepte dienten hauptsächlich der Bewertung der problem-spezifischen Methodenleistung. Die Ergebnisse der Bewertungen werden in Form einer Matrix dargestellt. Diese so genannte Analyse- und Vergleichsmatrix (AC-Matrix) besteht aus drei Teilen. Sie bietet Unterstützung bei der Auswahl von Methoden zur systematischen Problemlösung. Zielsetzung ist dabei eine objektiv-zielgerichtete Methodenauswahl. In der Anwendung der Matrix auf ein spezifisches Problem werden Methoden vorgeschlagen, welche am besten geeignet sind, das Problem zu lösen. Dies erlaubt es, Problemlösungsmethoden einfacher und objektiver dem Problemlösungsprozess zuzuordnen. Kernelement dieses Vorgehens ist eine Charakterisierung des betrachteten Problems. Eine grafische Darstellung der Matrix erhöht die Benutzerfreundlichkeit

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