

Dominik Heeschen

Kennzahlenbasierte Auswahl der Fertigungstechnologien und -ressourcen im industriellen Werkzeugbau

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Marcel Prümmer



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Kennzahlenbasiertes Bewertungssystem der Leistungsfähigkeit verketteter Fertigungssysteme Marcel Prümmer, 2020-11-05 Aktuell werden verkettete Fertigungssysteme im Werkzeugbau nur unzureichend eingesetzt Das entwickelte kennzahlenbasierte Bewertungssystem der technologischen Leistungsfähigkeit versetzt die Werkzeugbaubranche in die Lage individuelle Automationskonzepte oder bestehende verkettete Fertigungssysteme vorwiegend oder nach einer Investitionsentscheidung zu bewerten und so die Effizienz in der mechanischen Fertigung zu steigern Eine industrienaher Anwendbarkeit der Bewertung steht dabei im Fokus **Methodik zur Integration pulverbettbasierter additiver**

Fertigungstechnologien in Fertigungsprozessketten Moritz Wollbrink, 2022-04-22 Die direkte Verknüpfung zwischen 3D CAD Modell also virtuellem Design und Werkstoffaufbau also der Materialisierung von Ideen führt mit der additiven Fertigung zu einer digitalen Fertigungstechnologie Parallel existiert großes Potenzial hinsichtlich industrieller Anwendung der additiven Fertigung unterstützt durch Automatisierung und Prozesskettenintegration Der langfristig ökonomisch wie technologisch effektive Einsatz kann nur gelingen wenn diese Potenziale adressiert werden Dem Schwerpunkt der Prozesskettenintegration widmet sich diese Arbeit mit Fokus auf metallischen Bauteilen Im Gegensatz zu subtraktiven Fertigungsverfahren zur Bearbeitung von maschinenbaulichen Werkstoffen sind additive Fertigungsverfahren bisher nicht hinreichend in Fertigungsprozessketten integriert Dies ist jedoch notwendig um typische Qualitätsanforderungen durch sequenzielle Bearbeitung zu erreichen Dabei ist zu beachten dass die besonderen Eigenschaften additiv gefertigter Bauteile zu einer neuartigen Betrachtung bei der Prozesskettengestaltung führen Gleichzeitig bietet die additive Fertigung Vorteile bei der Unikaterstellung und Kleinserienfertigung und ermöglicht so die Individualisierung und Anpassbarkeit von Produkten Die Prozesskettenintegration von additiver Fertigung und damit deren Verknüpfung mit subtraktiver Fertigung muss also auf individuelle Bauteilanforderungen reagieren können und unterschiedlichste Fertigungsmittel mit ihren technologischen Leistungsfähigkeiten berücksichtigen In dieser Dissertation wird eine Methode zur Beschreibung von Bauteilen und deren Anforderungen entwickelt die den Eigenschaften additiv gefertigter Werkstoffe gerecht wird und ebenso für die Weiterbearbeitung geeignet ist Weiterhin werden bestehende Methoden zur Generierung und Gestaltung von Fertigungsprozessketten derart adaptiert und erweitert dass additiv subtraktive Prozessketten entwickelt werden können Schließlich werden diese Elemente in eine gemeinsame Methodik integriert Damit wird Fertigungsexperten unabhängig von ihrer Expertise im Bereich Fertigungsplanung oder additive Fertigung ein Tool zur Verfügung gestellt mit dem kennzahlenbasiert neue Prozessketten umgesetzt und strategische Entscheidungen zur zukünftigen Ausrichtung einer Fertigungsumgebung erleichtert werden Die Umsetzung in einer prototypischen Software und die Validierung anhand von drei Fallbeispielen stellt die praxisgerechte Anwendbarkeit der Methodik sicher **Kostenprognose von Instandhaltungsleistungen parallel zur Produktentwicklung** Felix Optehostert, 2020-03-24 Unternehmen des Maschinenbaus

stehen vor der Herausforderung die Instandhaltungskosten ihrer Produkte effektiv zu beeinflussen. Die notwendigen Informationen sind oft nicht in der geeigneten Form erfasst oder gar nicht verfügbar. Das Ziel der Arbeit ist es, Unternehmen zu befähigen, mit unterschiedlichen Informationsständen eine Prognose der zu erwartenden Instandhaltungskosten durchzuführen und auf Basis informatorischer Unsicherheiten Handlungsempfehlungen zur Kostenreduktion abzuleiten.

Kennzahlenbasierte Auswahl der Fertigungstechnologien und -ressourcen im industriellen Werkzeugbau

Dominik Heeschen, 2015-06-09

Unveiling the Magic of Words: A Report on "**Kennzahlenbasierte Fertigungstechnologien Ressourcen Industriellen Werkzeugbau**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Kennzahlenbasierte Fertigungstechnologien Ressourcen Industriellen Werkzeugbau**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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