

Systematische Einführung von Industrie 4.0 für den Mittelstand

Anforderungen, Methoden und Anwendungsbeispiel

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In diesem Beitrag wird eine Methodik zur Umsetzung von Industrie 4.0-Projekten im Bereich der Produktion und Logistik beschrieben. Diese Methodik berücksichtigt die besonderen Rahmenbedingungen von KMU und wurde bereits mehrfach in verschiedenen Digitalisierungs- und Industrie 4.0-Projekten mit KMU im Rahmen des Mittelstand 4.0-Kompetenzzentrums Hamburg angewandt. Der Fokus der Methodik liegt auf einer geeigneten Integration von neuen Technologien in bestehende Systeme sowie der Verbindung neu generierter Daten mit bereits vorhandenen Informationsflüssen. Die Anwendung der Methodik wird exemplarisch anhand eines realen Praxisbeispiels aus dem Mittelstand 4.0-Kompetenzzentrum Hamburg dargestellt.

Systematic Adoption of Industry 4.0 for SMEs – Requirements, Methods and Application Example

In this contribution, a method for the implementation of Industry 4.0 projects in production and logistics for small and medium-sized enterprises (SME) is described. This method takes various boundary conditions of SMEs into consideration and has been applied in different projects with SMEs within the "Mittelstand 4.0-Kompetenzzentrum Hamburg" initiative. The method focuses on an integration of new technologies into existing systems and the connection of newly generated data with known information flows.

Keywords: Small and Medium-sized Enterprises (SME), Industry 4.0, Digitalization

Aufgrund der fortschreitenden Globalisierung ist der zunehmende internationale Wettbewerb auch für viele kleine und mittlere Unternehmen (KMU) zum Treiber technologischer und prozesstechnischer Verbesserungen geworden. Neue Möglichkeiten der Digitalisierung und Vernetzung von menschlichen und maschinellen Akteuren, Prozessen und Produkten über die komplette Wertschöpfungskette, bekannt als Industrie 4.0, ermöglichen eine Individualisierung, Flexibilisierung und Effizienzsteigerung in der Produktion und Logistik bis hin zur Erweiterung von Geschäftsmodellen [1].

Die Analyse, Konzeptionisierung und Implementierung der Digitalisierung und Vernetzung von menschlichen und maschinellen Akteuren, Prozessen und Produkten, wird durch sog. Industrie 4.0-Projekte verfolgt. Die besonderen Rahmenbedingungen, die innerhalb von KMU vorherrschen und sich oftmals aus einer begrenzten Personalkapazität, einem geringen Maß an Fachwissen im Bereich Industrie 4.0 und beschränkten Investitionsmöglichkeiten zusammensetzen, erschweren jedoch die Umsetzung von Industrie 4.0-Projekten [2]. Viele KMU scheitern aufgrund der oftmals als komplex empfundenen Thematik und der Befürchtung hoher Investitionskosten von ei-

ner Umsetzung im eigenen Unternehmen ab. So hat bisher nur jeder fünfte Mittelständler seine betrieblichen Prozesse und Geschäftsmodelle erfolgreich digitalisiert. Ein Drittel der Betriebe hat sogar nicht einmal Grundelemente digitalisiert und zögert, den Ausbau weiter voranzutreiben [3]. Um KMU über die Chancen und Herausforderung der Digitalisierung zu informieren und sie bei der Umsetzung zu unterstützen, wurden in ganz Deutschland im Rahmen der vom BMWI geförderten Initiative „Mittelstand Digital“ 25 Mittelstand-4.0-Kompetenzzentren eingerichtet.

Im Rahmen dieses Beitrags wird eine Vorgehensweise für die systematische Einführung von Industrie 4.0 aufgezeigt, die besonders die Rahmenbedingungen von KMU berücksichtigt. Diese Vorgehensweise fand durch das Mittelstand-4.0-Kompetenzzentrum Hamburg bereits in verschiedenen Projekten mit KMU Anwendung.

Methodischer Ansatz für den Mittelstand

Für die im Folgenden vorgestellte Vorgehensweise zur Einführung von Konzepten der Digitalisierung und Industrie 4.0 für KMU wurden Methoden der Prozess- und erweiterten Infor-



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Sinn Und Industrie Einführung In Die Fil

Annelies Wilder-Smith



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Medienreflexion im Film Kay Kirchmann, Jens Ruchatz, 2015-07-15 Viele Spielfilme besch ftigen sich mehr oder weniger intensiv mit ihren Nachbarmedien Theater Malerei Fotografie Fernsehen und Video aber auch mit Telefon Computer Radio Zeitung und Schrift Das Handbuch Medienreflexion im Film stellt sich die Aufgabe dieses Ph nomen erstmals systematisch zu untersuchen um in der Gesamtschau die Frage zu kl ren wie Medialit t erst in Selbst und Fremdreferenz erzeugt wird Film wird dabei ausdr cklich in seiner Spezifik als audiovisuelles Instrument zur Beobachtung anderer Medien verstanden das sich in dieser Beobachtung selbst als Medium konstituiert Medien - Politik - Geschichte Moshe Zuckermann, 2003 **Erster Weltkrieg** Niels Werber, Stefan Kaufmann, Lars Koch, 2014-04-24 Der Erste Weltkrieg einschneidende Modernisierungs und Krisenerfahrung Das Handbuch verfolgt die Entwicklungen und Ver nderungen in Politik Gesellschaft Technik und Mentalit ten bis in die 1920er Jahre hinein und wirft einen beispiellosen Blick hinter die geschichtlichen Fakten Welche Themen Diskurse und Mythen ranken sich um die Ereignisse Wie werden diese wahrgenommen gedeutet und verarbeitet Welchen Widerhall finden sie in Kultur Literatur und Kunst Das Handbuch betrachtet die Ph nomene der Zeit aus moderner interdisziplin rer Perspektive so zum Beispiel die Kriegaaffirmation den industrialisierten Krieg den Stellungskrieg und Nahkampf die emotionale Mobilmachung und Erinnerungskultur M nnerb nde K rper und Nervenkrisen **Chronik des deutschen Films 1895-1994** Hans Helmut Prinzler, 2016-12-12 Diese chronik gibt einen kalendarischen berblick ber die deutsche filmgeschichte Von 1895 1994 nennt sie f r jedes Jahr Ufauff ngen ereignisse wie zum beispiel preise und festivals sowie geburts und sterbetage von filmschaffenden Spielgeschichte(n) Yana Lyapova, Tobias Unterhuber, 2025-11-07 Wie konstituiert sich unser Verst ndnis vom Spiel im Allgemeinen und vom Computerspiel im Besonderen sei es als Freizeitbesch ftigung kulturelles Artefakt oder als wissenschaftlicher Gegenstand Welche Rolle nehmen dabei Geschichten ber Spiele ein und wie formt sich aus diesen Einzelgeschichten eine Idee von Spiel und eine Medienkulturgeschichte des Spiels Und welche Akteure welche Disziplinen welche Institutionen sind an diesem Prozess beteiligt Die Beitr ger innen blicken auf das Bild das sich ergibt wenn man Spielgeschichte nicht als reine Fortschritts und Technikgeschichte versteht die sowohl die Sicht auf analoge und pr digitale Spielformen versperrt als auch die kulturelle und gesellschaftliche Stellung und Wirkung von Spielen au en vor l sst Bibliographie zur Geschichte des Alltags, 2008 **Epd film**, 1993 Robbe-Grillet, Resnais und der neue Blick Scarlett Winter, 2007 Prager Bank- und Handelszeitung. Organ f r Bank, Handel, Industrie, Verkehr und Versicherungswesen. (Red.: Carl Wilhelm Nunn.) Josef Kowarnik, 1872 **Sammlung von Schriften, welche sich auf der Bayerische Landes-Industrie-Gewerbe- und Kunstaussstellung in N rnberg 1882 beziehen**, 1882

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