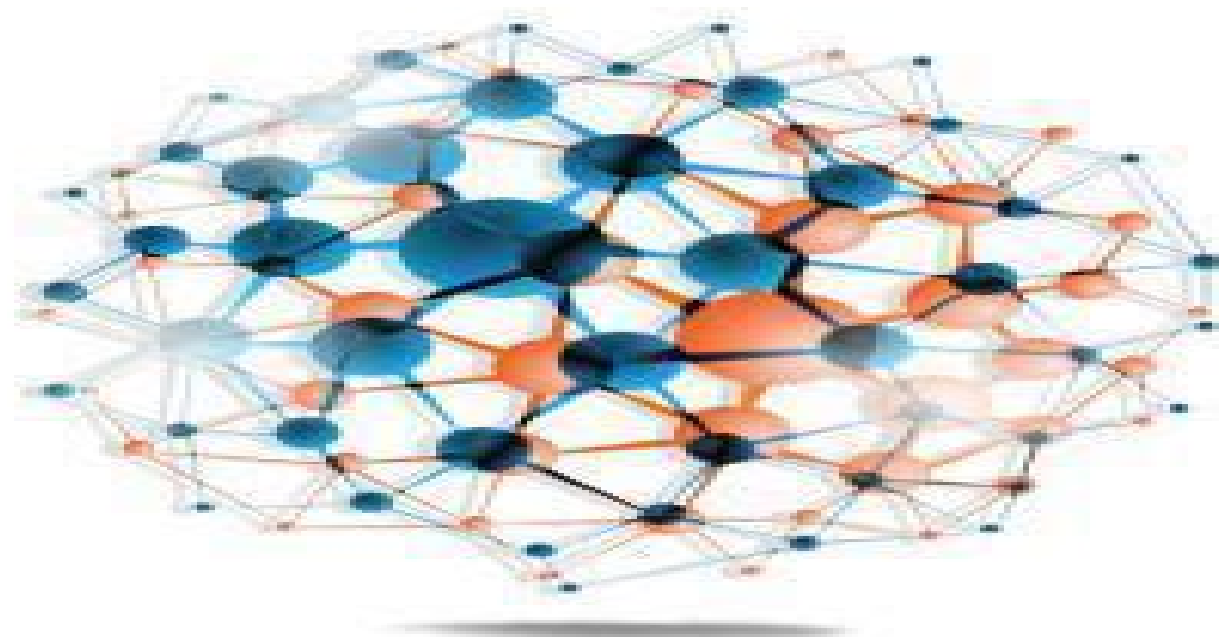


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Remanufacturing Initiation for Original Equipment Manufacturers Johan Vogt Duberg, 2024-04-29 Remanufacturing is an industrial process in which a core a used discarded or broken product is transformed into a product with a like new specification and condition However to this date remanufacturing activities on the market are few compared to manufacturing There are several types of remanufacturers the least common type is the original equipment remanufacturer an original equipment manufacturer that not only manufactures new products but also remanufactures cores of its own products Remanufacturing is potentially becoming a more widely used industrial process for original equipment manufacturers and increased remanufacturing activities can positively contribute to the environment The contribution comes from a reduction of raw material and energy consumption compared to manufacturing Therefore remanufacturing has the potential to decouple environmental impact from economic growth thus contributing to more sustainable societies However assessing the benefits of remanufacturing does not directly correlate to growth within the remanufacturing industry To encapsulate the environmental social and economic benefits of remanufacturing manufacturers need to be aware of how remanufacturing can be initiated and implemented in practice Therefore the objective of this dissertation is to develop support measures for original equipment manufacturers to initiate profitable remanufacturing This research takes a stand in case study and transdisciplinary research where the initiation of profitable remanufacturing is studied at two original equipment manufacturers The research study developed knowledge of how remanufacturing could be incorporated into existing operations at original equipment manufacturers In parallel financial assessments based on cost benefit analysis were built to measure how well the case companies could perform remanufacturing For the case study research seven remanufacturing scenarios were developed ranging from centralised remanufacturing performed by the original equipment manufacturer to decentralised performed at multiple locations using a retail network Which scenario is preferable depends on for example risk consciousness cooperation between actors and volume targets However given ideal circumstances remanufacturing in house in a centralised scenario was shown to be the most beneficial for the investigated original equipment manufacturer since the fewer middle hands and economies of scale also potentially enable lower costs For the transdisciplinary research the remanufacturing initiation was business model centric meaning that the remanufacturing system was a consequence of a decision for a specific business model Here a scenario based analysis was developed to understand under which circumstances the business model with remanufacturing was more lucrative for the provider the original equipment manufacturer and less costly for the users the customers For this a systematic assessment approach was developed consisting of three steps 1 provide a cost overview for each business model 2 create scenarios by modifying the cost drivers and 3 combine scenarios to reach synergetic effects Based on the case study two sets of four prerequisites for initiating remanufacturing were derived These are divided into essential and supporting prerequisites and illustrated through

a framework called the Remanufacturing Rocket The essential prerequisites highlight fundamental requirements to perform remanufacturing Should one of these four factors be missing remanufacturing cannot be successfully initiated The supporting prerequisites are valuable to enhance the effectiveness and efficiency of the process such as through streamlined operations organisational change or information exchange Hence to reach the fullest potential of remanufacturing both the essential and the supporting prerequisites are needed Furthermore the area of financial assessments was explored in a systematic literature review to identify insights for developing such assessments tailored for individual original equipment manufacturers in initiating remanufacturing For this six perspectives for framing financial assessments are proposed These cover the system boundaries for the assessments as well as the individual needs and visions of original equipment manufacturers Additionally a framework was developed to select financial assessment models for remanufacturing initiations based on ease of use and capability to handle complex datasets Conclusively it is proposed to apply the prerequisites for initiating remanufacturing together with a financial assessment in an iterative manner to investigate the profitability for original equipment manufacturers to initiate remanufacturing The essential prerequisites influence the first iteration of the financial assessment which then contributes to refinements of how the essential prerequisites should be aligned in an economically preferable way Once satisfactory another iterative process could be initiated between the supporting prerequisites and the financial assessment By using the proposed approach the prospects of profitable remanufacturing could be thoroughly investigated before attempting to initiate a process in practice thus reducing the number of resources spent in vain Additionally the iterative process was integrated into a 5 step Approach For Initiating Remanufacturing 5AFIR to guide original equipment manufacturers towards initiating profitable remanufacturing

Refabrikation oder Wiederaufbereitung engl Remanufacturing ist ein industrieller Prozess bei dem ein Altteil ein gebrauchtes ausrangiertes verschlissenes oder defektes Produkt gem den Herstellerspezifikationen in einen neuwertigen Zustand gebracht wird Heutzutage macht Refabrikation allerdings nur einen kleinen Teil der Fertigungsindustrie aus Verschiedene Arten von Unternehmen betreiben Refabrikation wobei Originalhersteller sogenannte OEMs engl f r Original Equipment Manufacturer am seltensten sind Solche OEMs betreiben neben Produktion auch eine Wiederaufbereitung ihrer eigenen Produkte Refabrikation kann sowohl kologische als auch konomische Vorteile bringen und hat somit grunds tzlich hohes Marktpotential Der geringere Rohstoff und Energieverbrauch von Refabrikation im Vergleich zu Neuproduktion ist ein Beispiel f r kologischen Vorteil Refabrikation erm glicht au erdem negative Umweltauswirkungen durch Produktion und Wirtschaftswachstum voneinander unabh ngig zu machen und tr gt somit zu nachhaltigem Wachstum bei Allerdings h ngt der Nutzen von Refabrikation nicht direkt mit dem Wachstum innerhalb der Refabrikationsbranche zusammen Um die kologischen sozialen und konomischen Vorteile nutzen zu k nnen m ssen Hersteller Kompetenz zur praktischen Umsetzung von Refabrikation aufbauen Ziel dieser Dissertation ist daher die Entwicklung von Unterst tzungsmahnahmen und konzepten f

r OEMs die zu profitabler Refabrikation führen Diese Arbeit basiert auf einer Fallstudie und auf transdisziplinärer Forschung bei der die Einführung von profitabler Refabrikation bei zwei OEMs untersucht wurde Die Fallstudie lieferte Erkenntnisse darüber wie Refabrikation in bestehende Abläufe bei OEMs integriert werden kann Außerdem wurden finanzielle Bewertungskriterien auf der Grundlage einer Kosten Nutzen Analyse erstellt um messen zu können wie erfolgreich die untersuchten Unternehmen Refabrikation implementieren konnten Für die Fallstudie wurden sieben Refabrikationsszenarien entwickelt die von zentraler Refabrikation durch das OEM bis zu dezentraler Refabrikation an mehreren Standorten durch ein Netzwerk von Niederlassungen reichen Welches der Szenarien vorzuziehen ist hängt beispielsweise vom Risikobewusstsein der Zusammenarbeit der Akteure und den angestrebten Stückzahlen ab Unter idealen Umständen erwies sich die unternehmensinterne Refabrikation mit zentralisierter Struktur als das vorteilhafteste Szenario Für die untersuchten OEMs führten weniger Zwischenhändler und Grenvorteile zu geringeren Kosten In der transdisziplinären Forschung dieser Dissertation wurde davon ausgegangen dass das Refabrikationssystem aus der Entscheidung für ein bestimmtes Geschäftsmodell folgt Basierend auf verschiedenen Szenarien wurde analysiert unter welchen Umständen das Geschäftsmodell inklusive Refabrikation für den Anbieter OEM lukrativer und für die Anwender Kunden kostengünstiger war Hierzu wurde ein systematisches Bewertungsschema entwickelt das aus drei Schritten besteht 1 Bereitstellung einer Kostenübersicht für jedes Geschäftsmodell 2 Erstellung von Szenarien durch Modifikation der Kostentreiber und 3 Kombination von Szenarien um Synergieeffekte zu erzielen Anforderungen für die Einführung von Refabrikation wurden auf Basis der Fallstudie abgeleitet Diese sind in vier essentielle und vier unterstützende Anforderungen eingeteilt und werden durch ein Modell namens Refabrikationsrakete veranschaulicht Die essentiellen Anforderungen sind grundlegend für die Durchführung von Refabrikation Ist eine dieser vier Anforderungen nicht erfüllt kann Refabrikation nicht erfolgreich umgesetzt werden Die unterstützenden Anforderungen steigern die Effektivität und Effizienz des Einführungsprozesses beispielsweise durch optimierte Abläufe organisatorische Änderungen oder Informationsaustausch Um das volle Potenzial von Refabrikation auszuschöpfen müssen sowohl die essentiellen als auch die unterstützenden Anforderungen erfüllt werden Wirtschaftliche Bewertungskriterien wurden im Rahmen einer systematischen Literaturrecherche betrachtet Ziel der Recherche war es Erkenntnisse für die Entwicklung solcher Bewertungskriterien zu erlangen Die Kriterien sollen dabei auf einzelne OEMs und die Einführung von Refabrikation zugeschnitten sein In dieser Arbeit werden sechs Ansätze für die Entwicklung wirtschaftlicher Bewertungskriterien vorgeschlagen Diese Ansätze behandeln sowohl Systemgrenzen für die Bewertungskriterien als auch individuelle Bedürfnisse und Ziele der OEM Darüber hinaus wurde ein Rahmenwerk entwickelt um wirtschaftliche Bewertungskriterien auf Basis ihrer Benutzerfreundlichkeit und ihrer Fähigkeit zur Bewältigung komplexer Datenmengen auszuwählen Abschließend wird vorgeschlagen die Anforderungen für die Einführung von Refabrikation zusammen mit einer wirtschaftlichen Bewertung iterativ zu prüfen um die Rentabilität von Refabrikation für OEMs zu

analysieren Die essentiellen Anforderungen beeinflussen die erste Iterationsschleife der wirtschaftlichen Bewertung In dieser ersten Schleife wird verfeinert wie die Grundanforderungen wirtschaftlich sinnvoll kombiniert werden können Es folgt eine zweite Iterationsschleife zwischen den unterstzenden Anforderungen und der finanziellen Bewertung Mit diesem Vorgehen kann das Potential einer rentablen Refabrikation gründlich untersucht werden bevor mit der Realisierung begonnen wird Dadurch können eventuell erfolglose Einführungsversuche vermieden und vergeblich aufgewendete Ressourcen reduziert werden Der iterative Prozess wurde in einen 5 stufigen Modell zur Einführung von Refabrikation 5AFIR zusammengefasst

tertillverkning r en industriell process d r en stomme en använd uttj nt eller trasig produkt omformas till en produkt vars specifikation och kvalitet motsvarar nyskick Idag utg r tertillverkning endast en liten del av den totala tillverkningsindustrin Det finns flera typer av tertillverkare den ovanligaste r originaltillverkande tertillverkare det vill s ga ett tillverkande företag som ven tertillverkar sina egna produkter Genom den l ga grad av tertillverkning bland originaltillverkare idag finns det utrymme f r att verka f r en kning En s dan kning kan bidra till milj m ssiga f rdelar genom att m ngden r material och energi reduceras j mf rt med nytillverkning Det finns d rf r en m jlighet f r tertillverkning att bidra till en frikoppling av milj m ssig p verkan fr n ekonomisk tillv xt vilket i sin tur bidrar till ett mer h llbart samh lle Fast att endast v rdera nyttan av tertillverkning leder inte direkt till en tillv xt inom tertillverkningsindustrin F r att omfamna de milj m ssiga sociala och ekonomiska nyttor som tertillverkning kan bidra med m ste originaltillverkare vara medvetna om hur tertillverkning kan initieras och implementeras i praktiken p ett ekonomiskt l nsamt s tt Denna doktorsavhandlings syfte r d rf r att utveckla st d f r originaltillverkare att initiera l nsam tertillverkning Forskningen utg r fr n en fallstudie och transdisciplin r forskningsmetodik d r initieringen av l nsam tertillverkning studeras vid tv originaltillverkare Den utf rda forskningen utvecklade kunskap om hur tertillverkning kan integrerats i en originaltillverkares befintliga verksamhet Parallellt med detta utvecklades ekonomiska utv rderingsmetoder f r att tillhandah lla ett m tt p hur v l fallf retagen skulle kunna utf ra tertillverkning F r fallstudien utvecklades det sju tertillverkningsscenario som str cker sig fr n centraliserad tertillverkning som utf rs av originaltillverkaren till decentraliserad som utf rs vid flertalet platser inom ett terf rs ljarn tverk Vilket scenario som var mest f rdelaktigt berodde exempelvis p riskmedvetenhet samarbete mellan akt rer och tillverkningsvolym Men givet ideala f rh llanden visades det att centraliserad tertillverkning vore potentiellt mest f rdelaktigt f r fallf retaget eftersom f rre mellanh nder och stordriftsf rdelar m jligg r l gre kostnader F r det andra fallf retagets initieringen av tertillverkning vid till mpning av den transdisciplin ra forskningsmetodiken var det ett aff rsmodellsfokus vilket innebar att tertillverkningssystemet var en konsekvens av ett beslut f r en viss aff rsmodell I denna del av forskningen utvecklades en scenariobaserad analysmetod f r att f rst under vilka f rh llanden som aff rsmodellen tillsammans med tertillverkning vore mer lukrativt f r f retaget originaltillverkaren och mindre kostsamt f r anv ndaren kunden F r detta utvecklades en systematisk ansats f r ekonomiska utv rderingar best ende av tre steg 1 tillhandah ll en kostnads verblick f r

varje affrsmodell 2 skapa scenarion genom att modifiera kostnadsdrivarna och 3 kombinera scenarion för att uppnå synergieffekter. Med utgångspunkt i fallstudien utvecklades även faktorer för att forma krav för hur originaltillverkare kan initiera tertillverkning. Dessa faktorer delas upp i grundläggande och st djande kravställningar och de bygger tillsammans upp ett ramverk för tertillverkningsraketen. De grundläggande kravställningarna lyfter fram elementära krav vid utförandet av tertillverkning och om en av de fyra skulle saknas kan tertillverkning inte utföras på ett framgångsrikt sätt. De st djande kravställningarna är avsedda för att förbättra tertillverkningseffektiviteten genom exempelvis bekymmersfritt utförande av processer, organisationsförändringar eller informationsutbytet. Därigenom för att nå den fulla potentialen av tertillverkning behövs både de grundläggande och de st djande kravställningarna. Dessutom utforskades om det för ekonomiska utvärderingsmetoder i en systematisk litteraturgenomgång för att identifiera insikter för att utveckla sådana metoder skreddarsydda för individuella originaltillverkare som initierar tertillverkning. Förändamlet förslås sex perspektiv för att forma ekonomiska utvärderingsmetoder. Dessa tecken är systemgränserna för utvärderingarna som individuella behov och visioner hos originaltillverkare. För att vidare st djärfretagen utvecklades ett ramverk för att välja ekonomiska utvärderingsmetoder för initieringar av tertillverkning baserat på användarvalighet och förmoda att hantera komplexa datamängder. Slutligen förslås det att tillämpa de framtagna kravställningarna tillsammans med ekonomisk utvärdering genom att iterativt undersöka möjligheterna för hur tertillverkning kan initieras för originaltillverkare. De grundläggande kravställningarna influerar upplägget för den första iterationen av den ekonomiska utvärderingen vilken i sin tur nyttjas för att förfinas hur de grundläggande kravställningarna kan ligga samman på ett ekonomiskt fördelaktigt sätt. När en godtagbar nivå uppnås kan ytterligare en iterativ process utföras mellan de st djande kravställningarna och den ekonomiska utvärderingen. Genom att tillämpa det förslagna tillvägagångssättet kan möjligheterna för tertillverkning undersökas på en detaljerad nivå innan initieringsförsöket i praktiken och således kan möjligheten till resurser minskas. Utöver detta integrerades det iterativa tillvägagångssättet med en 5 stegsansats för initiering av tertillverkning.

5AFIR *Advanced Composite Materials for Automotive Applications* Ahmed Elmarakbi, 2013-10-09. The automotive industry faces many challenges including increased global competition, the need for higher performance vehicles, a reduction in costs and tighter environmental and safety requirements. The materials used in automotive engineering play key roles in overcoming these issues; ultimately lighter materials mean lighter vehicles and lower emissions. Composites are being used increasingly in the automotive industry due to their strength, quality and light weight. *Advanced Composite Materials for Automotive Applications: Structural Integrity and Crashworthiness* provides a comprehensive explanation of how advanced composite materials including FRPs, reinforced thermoplastics, carbon-based composites and many others are designed, processed and utilized in vehicles. It includes technical explanations of composite materials in vehicle design and analysis and covers all phases of composite design, modelling, testing and failure analysis. It also sheds light on the performance of existing materials including carbon composites and future developments in automotive

material technology which work towards reducing the weight of the vehicle structure Key features Chapters written by world renowned authors and experts in their own fields Includes detailed case studies and examples covering all aspects of composite materials and their application in the automotive industries Unique topic integration between the impact crash failure damage analysis and modelling of composites Presents the state of the art in composite materials and their application in the automotive industry Integrates theory and practice in the fields of composite materials and automotive engineering Considers energy efficiency and environmental implications Advanced Composite Materials for Automotive Applications Structural Integrity and Crashworthiness is a comprehensive reference for those working with composite materials in both academia and industry and is also a useful source of information for those considering using composites in automotive applications in the future

Production Scheduling Rodrigo Righi, 2012-01-11 Generally speaking scheduling is the procedure of mapping a set of tasks or jobs studied objects to a set of target resources efficiently More specifically as a part of a larger planning and scheduling process production scheduling is essential for the proper functioning of a manufacturing enterprise This book presents ten chapters divided into five sections Section 1 discusses rescheduling strategies policies and methods for production scheduling Section 2 presents two chapters about flow shop scheduling Section 3 describes heuristic and metaheuristic methods for treating the scheduling problem in an efficient manner In addition two test cases are presented in Section 4 The first uses simulation while the second shows a real implementation of a production scheduling system Finally Section 5 presents some modeling strategies for building production scheduling systems This book will be of interest to those working in the decision making branches of production in various operational research areas as well as computational methods design People from a diverse background ranging from academia and research to those working in industry can take advantage of this volume

Advanced Computational Methods in Mechanical and Materials Engineering Ashwani Kumar, Yatika Gori, Nitesh Dutt, Yogesh Kumar Singla, Ambrish Maurya, 2021-11-23 This book provides in depth knowledge to solve engineering geometrical mathematical and scientific problems with the help of advanced computational methods with a focus on mechanical and materials engineering Divided into three subsections covering design and fluids thermal engineering and materials engineering each chapter includes exhaustive literature review along with thorough analysis and future research scope Major topics covered pertains to computational fluid dynamics mechanical performance design and fabrication including wide range of applications in industries as automotive aviation electronics nuclear and so forth Covers computational methods in design and fluid dynamics with a focus on computational fluid dynamics Explains advanced material applications and manufacturing in labs using novel alloys and introduces properties in material Discusses fabrication of graphene reinforced magnesium metal matrix for orthopedic applications Illustrates simulation and optimization gear transmission heat sink and heat exchangers application Provides unique problem solution approach including solutions methodology experimental setup and results validation This book is aimed at

researchers graduate students in mechanical engineering computer fluid dynamics fluid mechanics computer modeling machine parts and mechatronics *Metaheuristic and Machine Learning Optimization Strategies for Complex Systems* R., Thanigaivelan, M., Suchithra, S., Kaliappan, Mothilal, T., 2024-07-17 In contemporary engineering domains optimization and decision making issues are crucial Given the vast amounts of available data processing times and memory usage can be substantial Developing and implementing novel heuristic algorithms is time consuming yet even minor improvements in solutions can significantly reduce computational costs In such scenarios the creation of heuristics and metaheuristic algorithms has proven advantageous The convergence of machine learning and metaheuristic algorithms offers a promising approach to address these challenges Metaheuristic and Machine Learning Optimization Strategies for Complex Systems covers all areas of comprehensive information about hyper heuristic models hybrid meta heuristic models nature inspired computing models and meta heuristic models The key contribution of this book is the construction of a hyper heuristic approach for any general problem domain from a meta heuristic algorithm Covering topics such as cloud computing internet of things and performance evaluation this book is an essential resource for researchers postgraduate students educators data scientists machine learning engineers software developers and engineers policy makers and more Modern Manufacturing Processes Muammer Koç, Tugrul Özel, 2019-09-04 Provides an in depth understanding of the fundamentals of a wide range of state of the art materials manufacturing processes Modern manufacturing is at the core of industrial production from base materials to semi finished goods and final products Over the last decade a variety of innovative methods have been developed that allow for manufacturing processes that are more versatile less energy consuming and more environmentally friendly This book provides readers with everything they need to know about the many manufacturing processes of today Presented in three parts Modern Manufacturing Processes starts by covering advanced manufacturing forming processes such as sheet forming powder forming and injection molding The second part deals with thermal and energy assisted manufacturing processes including warm and hot hydrostamping It also covers high speed forming electromagnetic electrohydraulic and explosive forming The third part reviews advanced material removal process like advanced grinding electro discharge machining micro milling and laser machining It also looks at high speed and hard machining and examines advances in material modeling for manufacturing analysis and simulation Offers a comprehensive overview of advanced materials manufacturing processes Provides practice oriented information to help readers find the right manufacturing methods for the intended applications Highly relevant for material scientists and engineers in industry Modern Manufacturing Processes is an ideal book for practitioners and researchers in materials and mechanical engineering Advanced Manufacturing Techniques for Engineering and Engineered Materials Thanigaivelan, R., Rajan, N., Argul, T.G., 2022-03-11 As technology advances it is imperative to stay current in the newest developments made within the engineering industry and within material sciences Trends in manufacturing such as 3D printing casting welding surface modification computer numerical

control CNC non traditional Industry 4 0 ergonomics and hybrid machining methods must be closely examined to utilize these important resources for the betterment of society Advanced Manufacturing Techniques for Engineering and Engineered Materials provides a unified and complete overview about the recent and emerging trends developments and associated technology with scope for the commercialization of techniques specific to manufacturing materials This book also reviews the various machining methods for difficult to cut materials and novel materials including matrix composites Covering topics such as agro waste conventional machining and material performance this book is an essential resource for researchers engineers technologists students and professors of higher education industry workers entrepreneurs researchers and academicians Advanced Interdisciplinary Applications of Large Language Models and AI Agents Biju, Soly Mathew,2025-10-10 The evolution of large language models LLMs and AI agents reveals a new era of interdisciplinary innovation where the boundaries between fields like healthcare law education and engineering are blurred These advanced AI systems are being integrated into complex workflows that require reasoning adaptability and collaboration across knowledge areas From assisting in medical diagnostics and legal research to enabling personalized learning and automating scientific research LLMs and AI agents transform how problems are approached and solved Their ability to process information understand context and generate responses positions them as powerful tools for handling challenges that require expertise Advanced Interdisciplinary Applications of Large Language Models and AI Agents delves into the cutting edge intersection of AI machine learning and data science It explores the advanced applications of large language models LLMs AI agents sentiment analysis fuzzy logic and computer vision This book covers topics such as automation business intelligence and sentiment analysis and is a useful resource for business owners medical professionals educators computer engineers academicians researchers and data scientists **Fulltext Sources Online** ,2007 Advanced Sensors for Smart Healthcare Tuan Anh Nguyen,2025-01-27 Advanced Sensors for Smart Healthcare provides an invaluable resource for researchers and healthcare practitioners who are eager to use technology to improve the lives of patients Sections highlight data from sensor networks via the smart hospital framework including data insights and access This book shows how the use of sensors to gather data on a patient s condition and the environment their care takes place in can allow healthcare professionals to monitor well being and make informed decisions about treatment Describes the fundamentals of sensors biosensors and smart hospitals Explains how sensors and implanted nanodevices can be used in smart healthcare Discusses how intelligent wireless medical sensor networks can be used for healthcare in the future Companion volume to Sensor Networks for Smart Hospitals

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