



Title	Language	Keywords	Authors	Published in	Year
IT-Sicherheit in Industrie 4.0 - Mit Bedrohungen und Risiken umgehen	German	Industrie 4.0, Datensicherheit, Datenschutz	Annika Selzer, Harald Schöning, Martin Laabs, Sinisa Dukanovic, Thorsten Henkel	Kohlhammer. ISBN 978-3-17-033387-1	2020
Big Smart Data – Intelligent Operations, Analysis und Process Alignment	German	Industrie 4.0, Internet der Dinge, Soziale Netzwerke, Geschäftsprozesse, Big Data, IBPMS, Digital Twin, KI	Harald Schöning, Marc Dorchain	Handbuch Industrie 4.0 - Produktion, Automatisierung und Logistik, Springer Vieweg DOI https://doi.org/10.1007/978-3-662-45537-1	2020
Wie IT die Energieflexibilitätsvermarktung von Industrieunternehmen ermöglicht und die Energiewende unterstützt	German	IT, SynErgie	Bauer, Dennis; Hieronymus, Aljoscha; Kaymakci, Can; Köberlein, Jana; Schimmelpfennig, Jens; Wenninger, Simon; Zeiser, Reinhard	HMD Praxis der Wirtschaftsinformatik, 2020. DOI: https://doi.org/10.1365/s40702-020-00679-8	2020
Boosting Collaborative Networks 4.0 - Analysis of Manufacturing Platforms in the Context of Zero-Defect Process Establishment, Seite 583-596	English	Manufacturing Platforms, Zero Defect Manufacturing, Industrie 4.0	Artem A. Nazarenko, Joao Sarraipa, Luis M. Camarinha-Matos, Marc Dorchain, Ricardo Jardim-Goncalves	Springer International Publishing , Cham, ISBN: 978-3-030-62411-8 DOI https://doi.org/10.1007/978-3-030-62412-5_48	2020
B2B-Plattformen in der Corona-Krise	German	Corona, Digitale Geschäftsmodelle	Carsten Schridde, Markus Knobel, Christine Völzow, Walter Rogg, Philipp	Bundesministerium für Wirtschaft und Energie (BMWi), Plattform Industrie 4.0	2020

Resilient Sociotechnical Processes in the Industrial Internet of Things	English	Internet of Things, Process Modeling	Langhanke, Josef Art, Fabian Schmidt	<u>Ergebnispapier</u>	ZWF Zeitschrift für wirtschaftlichen Fabrikbetrieb: Vol. 115, No. 3, pp. 131-135, März,	2020
Konzept der Energiesynchronisationsplattform Diskussionspapier	German	Energieflexibilität, Energiesynchronisationsplattform	Verena Henrich, Susann Struwe, Sandro Koch, Jonas Hansert, Thomas Schlegel Gunther Reinhart, Lukas Bank, Martin Brugger, Aljoscha Hieronymus, Jana Köberlein, Stefan Roth, Thomas Bauernhansl, Alexander Sauer, Dennis Bauer, Can Kaymakci, Daniel Schel, Andreas Schlereth, Gilbert Fridgen, Hans Ulrich Buhl, Caroline Bojung, Paul Schott, Martin Weibelzahl, Simon Wenninger, Matthias Weigold, Martin Lindner, Karlheinz Ronge, Andreas Oeder, Jens Schimmelpfennig, Christian Winter, Matthias Jarke, Raphael Ahrens	<u>Diskussionspapier</u> des	Forschungsprojekts SynErgie, V3. DOI: 10.24406/igcv-n-602416, XIV + 71 + 2(unnummerierte) Seiten. Fraunhofer IGCV	2020
				DOI: https://doi.org/10.3139/104.112243		

Technische Werkzeuge für die Anonymisierung und Pseudonymisierung von Daten	German	Maschinelles Lernen, Anonymisierung von Daten	Andreas Dewes, Martin Steinebach, Patrick Aichroth, Christian Winter, Benedikt Kämpgen	Nabil Alsabah (Ed.): Anonymisierung und Pseudonymisierung von Daten für Projekte des maschinellen Lernens. Kapitel 2, Seiten 8–27. Bitkom, Berlin, Oktober 2020.	2020
				<u>Publikation</u>	
Air Quality Monitoring and Data Managemant in Germany - Status Quo and Suggestions for Improvement	English	Monitoring, Air Quality, Smart Data, Co-Design	Lisanne Petry, Hendrik Herold, Gotthard Meinel, Inken Müller, Elena Kalusche, Thilo Erbertseder, Hannes Taubenböck, Thomas Meiers, Beatrix Weber, Stefan Jäger, Christian Mayer, Christian Gengenbach	In: ISPRS TC IV - 5th International Conference on Smart Data and Smart Cities, 2020, (International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLIV-4/W2-2020), S.37-43 DOI: https://doi.org/10.5194/isprs-archives-XLIV-4-W2-2020-37-2020	2020
IoT in industrial environments supporting wellness at work and productivity of ageing employees: The sustAGE Project	English	IoT, smart sensors, worker monitoring, health risk detection, occupational safety, workforce productivity	Maria Pateraki, Manolis Lourakis, Leonidas Kallipolitis, Frank Werner, Petros Patias, Christos Pikridas	Special theme of ERCIM 119, ERCIM (European Research Consortium for Informatics and Mathematics)	2019
				<u>Paper</u>	
Energy Informatics: Use Case methodology: a progress report	English	SGAM, IEC 62559, ISMS	Marie Clausen, Rolf Apel, Marc Dorchain, Matthias Postina, Mathias Uslar	Springer Open, ISSN: 2520-8942Energy Informatics: Proceedings of the 7th DACH+ Conference on Energy Informatics, Volume 1 Supplement 1	2018

Data Analysis and Knowledge Management in Industrie 4.0	English	Smart Data Management, Complex Event Processing, Data Analytics, Industrial Internet of Things (IIoT)	Frank Werner, Robert Woitsch (BOC)	DOI https://doi.org/10.1186/s42162-018-0036-0 Datenbank-Spektrum, Data Processing in Industrie 4.0, ISSB 1610-1995	2018
SYNCHRO-NET: a powerful and innovative synchro-modal supply chain eco-NET	English	Smart Logistics, synchro-model transport, simulation	Denise Holfeld, Chiara Iorfida, Mikal Koya, Daniele Manerba, Julian Stephens, Roberto Tadei, Frank Werner	DOI 10.1007/s13222-018-0277-x Proceedings of 7th Transport Research Arena TRA 2018, April 16-19, 2018, Vienna, Austria	2018
Handbuch Industrie 4.0 Bd.2 - Big Smart Data - Intelligent Operations, Analysis und Process Alignment, Seite 457-469	German	Industrie 4.0, Data Mining und Analyse, Geschäftsprozesse in I4.0	Harald Schöning, Marc Dorchain	DOI https://doi.org/10.1007/978-3-662-53248-5_70 Springer Fachmedien, Wiesbaden, ISBN: 978-3-662-53247-8	2017
Digitally Green: EU-funded project Synchro-NET to optimize planning and manage real-time variations	English	Reduction of hinterland transport costs, strong decrease of CO2 emissions for shipping, land-based transport, modal shift to greener modes	Santiago Blasco, Nicoletta Garzoni, Pedro Perez, Julian Stephens, Frank Werner	HAFEN + TRANSPORT INTERMODAL, Schiffahrt Hafen Bahn und Technik, Vol 5, 2017	2017
A proposal of decentralised architecture for optimised operations in manufacturing ecosystem collaboration	English	decentralized platforms, process optimization, simulation, multi-layer platform	Pavlos Eirinakis, Jorge Buenabad-Chavez, Rosanna Fornasiero, Haluk Gokmen, Julien-Etienne Mascolo, Ioannis Mourtos, Sven Spieckermann, Vasilis	DOI https://doi.org/10.1007/978-3-319-65151-4_12 Proceedings: Working Conference on Virtual Enterprises, PRO-VE 2017, 18-20 Sep 2017, Vicenza, Italy	2017

			Tountopoulos, Frank Werner, Robert Woitsch		
Smart Big Data in der industriellen Fertigung	German	Industrie 4.0, IoT, CEP, Apama, Data Mining	Yvonne Hegenbarth, Gerald H. Ristow	B. Mitschang et al. (Hrsg.): Datenbanksysteme für Business, Technologie und Web (BTW 2017), Lecture Notes in Informatics (LNI), Gesellschaft für Informatik, Bonn 2017	2017
				<u>Paper</u>	
Short Guide to Gamification - Findings of the Reveal Project and Practical Application in Enterprise Online Communities	English	Gamification, enterprise communities, Reveal, ARIS	Marc Dorchain, Gabriele Strobel, Martin Scheid	Available at SSRN	2016
Deja Vu: Wieder einmal NoSQL Datenbanken	German	NoSQL, Datenbanken	Harald Schöning	HMD Praxis der Wirtschaftsinformatik, 2016 DOI: https://doi.org/10.1365/s40702-016-0235-8	2016
Unterstützung der Störungserkennung in der industriellen Fertigung durch eine echtzeitfähige Big Data-Plattform	German	Industrie 4.0, IoT, CEP, Apama, Data Mining	Gerald H. Ristow, Yvonne Hegenbarth	Ralf-Christian Härting (Hrsg.): Industrie 4.0 und Digitalisierung – Innovative Geschäftsmodelle wagen! ISBN: 978-3-8391-3735-2	2016
Proactive Disruption Management System: How Not to Be Surprised by Upcoming Situations	English	Industrie 4.0, IoT, CEP, Apama, Data Mining	Suad Sejdovic, Yvonne Hegenbarth, Gerald	Verlag: BoD - Books on DemandVerlagsort: Norderstedt Proceedings of the 10th ACM International Conference on Distributed and Eventbased Systems. DEBS '16, ACM, Irvine,	2016

			H. Ristow, Roland Schmidt	California, S. 281–288, 2016, isbn: 978-1-4503-4021-2	
				DOI: 10.1145/2933267.2933271	
Modeling Complex Event Patterns in EPC-Models and Transforming them into an Executable Event Pattern Language, Seite: 81-92	English	CEP, ARIS, APAMA, EPL	Julian Krumeich, Manuel Zapp, Dirk Mayer, Dirk Werth, and Peter Loos	Multikonferenz Wirtschaftsinformatik (MKWI) 2016 : Technische Universität Ilmenau 09. - 11. März 2016 ISBN: 978-3-86360-132-4	2016
				Verlag; Universitätsverlag Ilmenau Buch Vertrauensbasierte Führung	
Industrie 4.0	German	Industrie 4.0	Harald Schöning	ISBN: 978-3-662-46232-4	2016
				Verlag: Springer Gabler Zeitschrift: Industrieanzeiger	
Industrie 4.0 nur mit sicherer IT	German	Industrie 4.0, Sicherheit	Harald Schöning	ISSN: 0019-9036	2015
				Verlag: Konradin-Verlag Robert Kohlhammer GmbH Buch Innovationsführerschaft - Credo und Praxis	
Das Konzept Industrie 4.0	German	Industrie 4.0	Harald Schöning	ISBN: 978-3-86329-641-4	2015
				Verlag: symposion Buch Industrie 4.0: Ein praxisorientierter Ansatz	
IT-Sicherheit in Industrie 4.0	German	Industrie 4.0, Sicherheit	Harald Schöning		2015

					ISBN: 978-3-945622-01-8	
					Verlag: KS-Energy-Verlag Buch Industrie 4.0: Ein praxisorientierter Ansatz	
Vom Sensor zum Geschäftsprozess - Industrie 4.0 in der Stahlindustrie	German	Industrie 4.0, Geschäftsprozesse	Dietmar Gärtner, Jens Schimmelpfennig		ISBN: 978-3-945622-01-8	2015
Risk Assessment and Security Testing of Large Scale Networked Systems with RACOMAT	English	Risk assessment, Security testing, Incident simulation	Johannes Viehmann, Frank Werner		Verlag: KS-Energy-Verlag 3rd Int'l. Risk Assessment & Risk- driven Testing Workshop, Risk Assessment and Risk-Driven Testing, Third International Workshop, RISK 2015, Berlin, Germany, June 15, ISBN 978-3- 319-26416-5	2015
Industrie 4.0 in Produktion, Automatisierung und Logistik, Seite 543-554	German	Industrie 4.0, Data Mining und Analyse, Geschäftsprozesse in I4.0	Harald Schöning, Marc Dorchain		DOI: https://doi.org/10.1007/978-3-319-26416-5_1 Springer Fachmedien, Wiesbaden, ISBN: 978-3-658-04681-1	2014
Advanced Planning and Control of Manufacturing Processes in Steel Industry through Big Data Analytics: Case Study and Architecture Proposal	English	Big Data, Industrie 4.0	Julian Krumeich, Sven Jacobi, Jens Schimmelpfennig, Dirk Werth und Peter Loos		DOI https://doi.org/10.1007/978-3-658-04682-8 IEEE International Conference on Big Data, Washington DC, 27. - 30. Oktober 2014	2014
					DOI: 10.1109/BigData.2014.7004408	

Autonomic monitoring approach based on CEP and ML for Logistic of Sensitive Goods	English	IoT, CEP, smart logistics, machine learning	Septimiu Nechifor, Bogdan Tarnaucu, Lucian Sasu, Dan Puiu, Anca Petrescu, Joachim Teutsch, Walter Waterfeld, Florin Moldoveanu	IEEE 18th International Conference on Intelligent Engineering Systems, 2014 DOI: 10.1109/INES.2014.6909343
Data Mining und Analyse	English	Data Mining, Industrie 4.0	Harald Schöning und Marc Dorchain	Buch: Industrie 4.0 in Produktion, Automatisierung und Logistik - Anwendung • Technologien • Migration ISBN: 978-3-658-04681-1 Verlag: Springer Fachmedien Wiesbaden 2014
Realizing the Predictive Enterprise through Intelligent Process Predictions based on Big Data Analytics: A Case Study and Architecture Proposal	English	Predictive Enterprise, BPM, CEP, Industrie 4.0	Julian Krumeich, Jens Schimmelpfennig, Dirk Werth, Peter Loos	44. Jahrestagung der Gesellschaft für Informatik (Informatik 2014), Stuttgart, 22. - 26. September 2014 2014
Vom Geschäftsmodell zum Geschäftsprozess und zurück - Konfiguration, Analyse, Transformation, Controlling	German	Geschäftsmodelle für softwareindustrie, Bewertung konfigurierter Modelle	Joachim Caspar; Christina Di Valentin, C; Sebastian Maier.; Dirk Mayer.; Anton Pussep.; Markus Schief	Praxis der Wirtschaftsinformatik , Heft 292 2013
Emergence as Competitive Advantage Engineering Tomorrow's Enterprise Software Systems	English	Emergence, Business Process Modeling, Emergent Enterprise Software Systems, Interoperability, Adaptability, System-of-Systems, Software Evolution, Event-based Systems, Service-oriented Architectures	Sebastian Frischbier, Michael Gesmann, Dirk Mayer, Andreas Roth and Christian Webel	Proceedings of the 14th International Conference on Enterprise Information Systems (ICEIS 2012), Wroclaw, Poland DOI: 10.5220/0003970501810186 2012

Towards a Framework for Transforming Business Models into Business Processes.	English	Business modell, Model transformation	Thomas Burkhart; Christina Di Valentin.; Dominik Vanderhaeghen, Dirk Werth,; Peter Loos	18th Americas Conference on Information Systems, August 9-11, Seattle, WA, United States.AMCIS 2012 Proceedings. American Conference on Information Systems (AMCIS-12)	2012
Business Process Management 2011 – Status quo und Zukunft Eine empirische Studie im deutschsprachigen Europa	German	Empirische Studie, BPM	Clemente Minonne, Carlo Colicchio, Matthias Litzke, Thomas Keller	Zürcher Hochschule für Angewandte Wissenschaften Herausgeber: Clemente Minonne	2011
Partner der Studie (u. a. Software AG)				Studie	
Involving Business Users in the Design of Complex Event Processing Systems	English	Complex Event Processing (CEP), conceptual modeling language, complex events, automotive manufacturing industry	Jens Schimmelpfennig, Dirk Mayer, Philipp Walter, Christian Seel	Tagungsband der 14. GI-Fachtagung Datenbanksysteme für Business, Technologie und Web, Kaiserslautern, 2011, S. 606-615	2011
The ADiWa Project - on the Way to Just-in-Time Process Dynamics based on Events from the Internet of Things.	English	Event-based System, Event Processing, Context Awareness, Dynamic Business Processes, Internet of Things	Makus Schief, Christian Kuhn, Birgit Zimmermann, Philipp Rösch, Walter Waterfeld, Jens Schimmelpfennig, Dirk Mayer, Heiko Maus, Jörn Eichler	In: 13th International Conferenc on Enterprise Information Systems (ICEIS 2011), Beijing. DOI: 10.13140/RG.2.1.5151.6883	2011
Efficient Implementation of Interoperable Business Processes by Model Transformation.	English	Model transformation, BPMN	Jürgen Göres, Christian Seel	Paul Cunningham and Miriam Cunningham (Hrsg.): eChallenges e-2011 Conference Proceedings, Florence, Italy, October 25-28 2011	2011
Demonstrating the Application of Digital Product	English	Keywords-Distributed data structures; Information	Alexander Kröner, Gerrit Kahl, Lüboomira Spassova, Thomas	Proc. of the 6th IEEE International Conference on Intelligent	2010

Memories in a Carbon Footprint Scenario		browsers;Process control; Pervasive computing	Feld, Dirk Mayer, Carsten Magerkurth, Ali Dada	Environments (IE), Kuala Lumpur, Malaysia Juli 2010 DOI: 10.1109/IE.2010.37 In: Proceedings of 12th International Conference on the Modern Information Technology in the Innovation Processes of the industrial enterprises (MITIP), Aalborg, Denmark, August 30-31, 2010 S. 102-109	
Conceptual Modeling of Complex Events in Industrial Business Processes	English	Business Process Management (BPM), Complex Event Processing (CEP), RFID, Business-IT-Alignmen, MOF	Dirk Mayer, Jens Schimmelpfennig, Christian Seel, Philipp. Walter	Paper Proceedings of the eChallenges 2010 conference, Warsaw, Poland, October 27-29, 2010	2010
Conceptual Modeling of Complex Events of the Internet of Things.	English	Business Process Management (BPM), Complex Event Processing (CEP), RFID, Business-IT-Alignmen. MOF	Christian Seel, Jens Schimmelpfennig, Philipp Walter, Dirk Mayer	Proc. of the 6th IEEE International Conference on Intelligent Environments (IE), Kuala Lumpur, Malaysia Juli 2010	2010
Demonstrating the Application of Digital Product Memories in a Carbon Footprint Scenario	English	Keywords-Distributed data structures; Information browsers;Process control; Pervasive computing	Alexander Kröner, Gerrit Kahl, Lüboomira Spassova, Thomas Feld, Dirk Mayer, Carsten Magerkurth, Ali Dada	DOI: 10.1109/IE.2010.37	
Process follows Strategy - Plan, execute and control business processes aligned with corporate strategy	English	Performance Management, Business Process Management, Strategy Execution, Strategy Maps, Balanced Scorecard, Business ModelPerformance Management, Business Process Management, Strategy Execution, Strategy Maps, Balanced Scorecard, Business Model	Katrina Leyking	Information Management und Consulting 25, 4, 2010, S. 62ff.	