

Тема: Использование машинного обучения в промышленности

Ключевые слова:

1. Machine learning

<input type="checkbox"/> 1	Random forests <i>Открытый доступ</i>	Breiman, L.	2001	Machine Learning 45(1), с. 5-32	61872
« Просмотр краткого описания  View at Publisher Связанные документы					
<input type="checkbox"/> 2	Deep learning	Lecun, Y., Bengio, Y., Hinton, G.	2015	Nature 521(7553), с. 436-444	39574
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<input type="checkbox"/> 3	Scikit-learn: Machine learning in Python	Pedregosa, F., Varoquaux, G., Gramfort, A., (...), Perrot, M., Duchesnay, É.	2011	Journal of Machine Learning Research 12, с. 2825-2830	37783
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<input type="checkbox"/> 4	Support-Vector Networks <i>Открытый доступ</i>	Cortes, C., Vapnik, V.	1995	Machine Learning 20(3), с. 273-297	35015
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<input type="checkbox"/> 5	Gradient-based learning applied to document recognition <i>Открытый доступ</i>	LeCun, Y., Bottou, L., Bengio, Y., Haffner, P.	1998	Proceedings of the IEEE 86(11), с. 2278-2323	28601
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<input type="checkbox"/> 6	LIBSVM: A Library for support vector machines	Chang, C.-C., Lin, C.-J.	2011	ACM Transactions on Intelligent Systems and Technology 2(3), 27	24934
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2. Machine learning in industry

<input type="checkbox"/> 1	Caffe: Convolutional architecture for fast feature embedding	Jia, Y., Shelhamer, E., Donahue, J., (...), Guadarrama, S., Darrell, T.	2014	MM 2014 - Proceedings of the 2014 ACM Conference on Multimedia	7494
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<input type="checkbox"/> 2	From data mining to knowledge discovery in databases	Fayyad, U., Piatetsky-Shapiro, G., Smyth, P.	1996	AI Magazine 17(3), c. 37-53	2814
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<input type="checkbox"/> 3	Efficient Processing of Deep Neural Networks: A Tutorial and Survey	Sze, V., Chen, Y.-H., Yang, T.-J., Emer, J.S.	2017	Proceedings of the IEEE 105(12), 8114708, c. 2295-2329	1576
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<input type="checkbox"/> 4	Federated machine learning: Concept and applications	Yang, Q., Liu, Y., Chen, T., Tong, Y.	2019	ACM Transactions on Intelligent Systems and Technology 10(2), 12	1568
View					
<input type="checkbox"/> 5	Machine learning in medicine	Deo, R.C.	2015	Circulation 132(20), c. 1920-1930	1127
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Просмотр краткого описания  View at Publisher Связанные документы					
<input type="checkbox"/> 6	Artificial intelligence for fault diagnosis of rotating machinery: A review	Liu, R., Yang, B., Zio, E., Chen, X.	2018	Mechanical Systems and Signal Processing 108, c. 33-47	997
View					

3. Digital industry

<input type="checkbox"/> 1	From PID to active disturbance rejection control	Han, J.	2009	IEEE Transactions on Industrial Electronics 56(3), c. 900-906	4125
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<input type="checkbox"/> 2	Electronics using hybrid-molecular and mono-molecular devices	Joachim, C., Gimzewski, J.K., Aviram, A.	2000	Nature 408(6812), c. 541-548	2891
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<input type="checkbox"/> 3	Additive manufacturing technologies: Rapid prototyping to direct digital manufacturing (Book) <i>Открытый доступ</i>	Gibson, I., Rosen, D.W., Stucker, B.	2010	<i>Additive Manufacturing Technologies: Rapid Prototyping to Direct Digital Manufacturing</i> c. 1-459	2541
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<input type="checkbox"/> 4	Image correlation for shape, motion and deformation measurements: Basic concepts, theory and applications (Book) <i>Открытый доступ</i>	Schreier, H., Orteu, J.-J., Sutton, M.A.	2009	<i>Image Correlation for Shape, Motion and Deformation Measurements: Basic Concepts, Theory and Applications</i> c. 1-321	2304
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<input type="checkbox"/> 5	Autonomous demand-side management based on game-theoretic energy consumption scheduling for the future smart grid <i>Открытый доступ</i>	Mohsenian-Rad, A.-H., Wong, V.W.S., Jatskevich, J., Schober, R., Leon-Garcia, A.	2010	IEEE Transactions on Smart Grid 1(3), 562-571, c. 320-331	2146
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<input type="checkbox"/> 6	Electronics based on two-dimensional materials	Fiori, G., Bonacorso, F., Iannaccone, G., (...), Banerjee, S.K., Colombo, L.	2014	Nature Nanotechnology 9(10), c. 768-779	2099
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Статьи

1. Sze, Vivienne. Processing of Deep Neural Networks: A Tutorial and Survey / Sze, V., Chen, Y.H., Yang, T.J., Emer I.S. // Proceedings of the IEEE – 2017 – Том 105 – С. 2295-2329

Proceedings of the IEEE • Открытый доступ • Том 105, Выпуск 12, Страницы 2295 - 2329 • December 2017 • Номер статьи 8114708

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10.1109/JPROC.2017.2761740

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Efficient Processing of Deep Neural Networks: A Tutorial and Survey

Sze, Vivienne^a ; Chen, Yu-Hsin^a ; Yang, Tien-Ju^a ; Emer, Joel S.^{a, b}     Сохранить всех в список авторов

^a Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, 02139, MA, United States
^b Nvidia Corporation, Westford, 01886, MA, United States

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Deep neural networks (DNNs) are currently widely used for many artificial intelligence (AI) applications including computer vision, speech recognition, and robotics. While DNNs deliver state-of-the-art accuracy on many AI tasks, it comes at the cost of high computational complexity. Accordingly, techniques that enable efficient processing of DNNs to improve energy efficiency and throughput without sacrificing application accuracy or increasing hardware cost are critical to the wide deployment of DNNs in AI systems. This article aims to provide a comprehensive tutorial and survey about the recent advances toward the goal of enabling efficient processing of DNNs. Specifically, it will provide an overview of DNNs, discuss various hardware platforms and architectures that support DNNs, and highlight key trends in reducing the computation cost of DNNs either solely via hardware design changes or via joint hardware design and DNN algorithm changes. It will also summarize various development resources that enable researchers and practitioners to quickly get started in this field, and highlight important benchmarking metrics and design considerations that should be used for evaluating the rapidly growing number of DNN hardware designs, optionally including algorithmic codesigns, being proposed in academia and industry. The reader will take away the following concepts from this article: understand the key design considerations for DNNs; be able to evaluate different DNN hardware implementations with benchmarks and comparison metrics; understand the tradeoffs between various hardware architectures and platforms; be able to evaluate the utility of various DNN design techniques for efficient processing; and understand recent implementation trends and opportunities. © 2017 IEEE.

Ключевые слова автора

ASIC; computer architecture; convolutional neural networks; dataflow processing; deep learning; deep neural networks; energy-efficient accelerators; low power; machine learning; spatial architectures; VLSI

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Yang, Tien-Ju:

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Emer, Joel S.:

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2. Liu, Ruonan. Artificial intelligence for fault diagnosis of rotating machinery: A review / Ruonan L., Boyuan Y., Enrico Z., Xuefeng C. // Mechanical Systems and Signal Processing – 2018 – Том 108 – С. 33-47

Mechanical Systems and Signal Processing • Том 108. Страницы 33 – 47 • August 2018

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10.1016/j.ymssp.2018.02.016
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Liu, Ruonan^{a, b} ; Yang, Boyuan^{a, b} ; Zio, Enrico^{c, d} ; Chen, Xuefeng^{a, b}  Сохранить всех в список авторов

^a State Key Laboratory for Manufacturing Systems Engineering, Xian Jiaotong University, Xian, 710049, China
^b School of Mechanical Engineering, Xian Jiaotong University, Xian, 710049, China
^c Chair on System Science and the Energetic Challenge, EDF Foundation, Laboratoire Genie Industriel, CentraleSupélec, Université Paris-Saclay Grande voie des Vignes, Chatenay-Malabry, 92290, France
^d Energy Department, Politecnico di Milano, Milano, Italy

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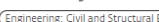
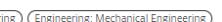
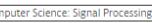
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Краткое описание
Fault diagnosis of rotating machinery plays a significant role for the reliability and safety of modern industrial systems. As an emerging field in industrial applications and an effective solution for fault recognition, artificial intelligence (AI) techniques have been receiving increasing attention from academia and industry. However, great challenges are met by the AI methods under the different real operating conditions. This paper attempts to present a comprehensive review of AI algorithms in rotating machinery fault diagnosis, from both the views of theory background and industrial applications. A brief introduction of different AI algorithms is presented first, including the following methods: k-nearest neighbour, naive Bayes, support vector machine, artificial neural network and deep learning. Then, a broad literature survey of these AI algorithms in industrial applications is given. Finally, the advantages, limitations, practical implications of different AI algorithms, as well as some new research trends, are discussed. © 2018 Elsevier Ltd

Ключевые слова автора
Artificial intelligence; Artificial neural network; Deep learning; Fault diagnosis; k-Nearest neighbour; Naive Bayes; Rotating machinery; Support vector machine

Связанные документы
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Review on Machine Learning Algorithm Based Fault Detection in Induction Motors
Kumar, P., Hati, A.S. (2021) *Archives of Computational Methods in Engineering*
Gearbox Fault Diagnosis using Advanced Computational Intelligence
Mukherjee, S., Kumar, V., Sarangi, S. (2020) *Procedia Computer Science*

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Liu, Ruonan:

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Yang, Boyuan:

17
Документы 13
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Zio, Enrico:

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Chen, Xuefeng:

357 62 13 849
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3. Yang, Qiang. Federated machine learning: Concept and applications / Yang Q., Liu Y., Chen T., Tong Y. // ACM Transactions on Intelligent Systems and Technology – 2019 – Том 10 – № 12

ACM Transactions on Intelligent Systems and Technology • Том 10, Выпуск 2 • January 2019 • Номер статьи 12

Federated machine learning: Concept and applications

Yang, Qiang^a ; Liu, Yang^b ; Chen, Tianjian^b ; Tong, Yongxin^c
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^a Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong
^b Keji Shengtaiyuan, No. 1819 Shaihe West Road, Nanshan District, Shenzhen, China
^c Advanced Innovation Center for Big Data and Brain Computing, Beihang University, No. 37 Xueyuan Road, Haidian District, Beijing, China

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Краткое описание
Today's artificial intelligence still faces two major challenges. One is that, in most industries, data exists in the form of isolated islands. The other is the strengthening of data privacy and security. We propose a possible solution to these challenges: Secure federated learning. Beyond the federated-learning framework first proposed by Google in 2016, we introduce a comprehensive secure federated-learning framework, which includes horizontal federated learning, vertical federated learning, and federated transfer learning. We provide definitions, architectures, and applications for the federated-learning framework, and provide a comprehensive survey of existing works on this subject. In addition, we propose building data networks among organizations based on federated mechanisms as an effective solution to allowing knowledge to be shared without compromising user privacy. © 2019 Copyright held by the owner/author(s).

Ключевые слова автора
Federated learning ; GDPR; transfer learning

ACM Transactions on Intelligent Systems and Technology
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Издатель: ACM
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Liu, Y.:

39 Документы 13 h-индекс 2 573 Цитирования в 2061 документе

Chen, T.:

23
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Tong, Y.:

106
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4. Burrell J. How the machine ‘thinks’: Understanding opacity in machine learning algorithms / Burrell, Jenna // Big Data and Society – 2016 – Том 3

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How the machine ‘thinks’: Understanding opacity in machine learning algorithms

Burrell, Jenna 

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^a School of Information, UC-Berkeley, Berkeley, CA, United States

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Краткое описание

Краткое описание

This article considers the issue of opacity as a problem for socially consequential mechanisms of classification and ranking, such as spam filters, credit card fraud detection, search engines, news trends, market segmentation and advertising, insurance or loan qualification, and credit scoring. These mechanisms of classification all frequently rely on computational algorithms, and in many cases on machine learning algorithms to do this work. In this article, I draw a distinction between three forms of opacity: (1) opacity as intentional corporate or state secrecy, (2) opacity as technical illiteracy, and (3) an opacity that arises from the characteristics of machine learning algorithms and the scale required to apply them usefully. The analysis in this article gets inside the algorithms themselves, I cite existing literature in computer science, known industry practices (as they are publicly presented), and do some testing and manipulation of code as a form of lightweight code audit. I argue that recognizing the distinct forms of opacity that may be coming into play in a given application is a key to determining which of a variety of technical and non-technical solutions could help to prevent harm. © The Author(s) 2016.

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Big Data and Society

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Годы охвата Scopus: с 2014 по настоящий момент

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5. Ge, Zhiqiang. Data Mining and Analytics in the Process Industry: The Role of Machine Learning / Zhiqiang Ge., Zhihuan S., Steven X. D., Huang B. // IEEE Access – 2017 – Том 5 – С. 20590-20616

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Ge, Zhiqiang^a  ; Song, Zhihuan^a; Ding, Steven X.^b; Huang, Biao^c
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^b Institute for Automatic Control and Complex Systems, University of Duisburg-Essen, Duisburg, 47057, Germany
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Краткое описание

Data mining and analytics have played an important role in knowledge discovery and decision making/supports in the process industry over the past several decades. As a computational engine to data mining and analytics, machine learning serves as basic tools for information extraction, data pattern recognition and predictions. From the perspective of machine learning, this paper provides a review on existing data mining and analytics applications in the process industry over the past several decades. The state-of-the-art of data mining and analytics are reviewed through eight unsupervised learning and ten supervised learning algorithms, as well as the application status of semi-supervised learning algorithms. Several perspectives are highlighted and discussed for future researches on data mining and analytics in the process industry. © 2013 IEEE.

Связанные документы

Process Data Analytics via Probabilistic Latent Variable Models: A Tutorial Review
Ge, Z. (2018) *Industrial and Engineering Chemistry Research*
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Вывод

Проанализировав поиск англоязычных и русскоязычных статей на тему машинного обучения в промышленности можно сделать вывод, что в англоязычном виде статей ощутимо больше. Но развитие с каждым годом этого направления заметно на обоих сторонах.