







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
Просмотр краткого описания  View at Publisher Связанные документы						
<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
Просмотр краткого описания  View at Publisher  Связанные документы						
<input type="checkbox"/>	4	Support-Vector Networks <i>Открытый доступ</i>	Cortes, C., Vapnik, V.	1995	Machine Learning 20(3), с. 273-297	35015
Просмотр краткого описания  View at Publisher Связанные документы						
<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
Просмотр краткого описания  View at Publisher Связанные документы						
<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
Просмотр краткого описания  View at Publisher Связанные документы						

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 с. 675-678	7494
Просмотр краткого описания View at Publisher Связанные документы					
<input type="checkbox"/> 2	From data mining to knowledge discovery in databases	Fayyad, U., Piatetsky-Shapiro, G., Smyth, P.	1996	AI Magazine 17(3), с. 37-53	2814
Просмотр краткого описания View at Publisher Связанные документы					
<input type="checkbox"/> 3	Efficient Processing of Deep Neural Networks: A Tutorial and Survey <i>Открытый доступ</i>	Sze, V., Chen, Y.-H., Yang, T.-J., Emer, J.S.	2017	Proceedings of the IEEE 105(12),8114708, с. 2295-2329	1576
Просмотр краткого описания View at Publisher Связанные документы					
<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
Просмотр краткого описания View at Publisher Связанные документы					
<input type="checkbox"/> 5	Machine learning in medicine <i>Открытый доступ</i>	Deo, R.C.	2015	Circulation 132(20), с. 1920-1930	1127
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, с. 33-47	997
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<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
<p>Просмотр краткого описания View at Publisher Связанные документы</p>						
<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
<p>Просмотр краткого описания View at Publisher Связанные документы</p>						
<input type="checkbox"/>	6	Electronics based on two-dimensional materials	Fiori, G., Bonaccorso, F., Iannaccone, G., (...), Banerjee, S.K., Colombo, L.	2014	Nature Nanotechnology 9(10), c. 768-779	2099
<p>Просмотр краткого описания View at Publisher Связанные документы</p>						

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

Тип документа
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Тип источника
Журнал
ISSN
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DOI
10.1109/JPROC.2017.2761740
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Proceedings of the IEEE • Открытый доступ • Том 105, Выпуск 12, Страницы 2295 – 2329 • December 2017 • Номер статьи 8114708

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

1576 99th percentile
Цитаты в Scopus

30,14
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449
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Ключевые слова автора

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Цели устойчивого развития 2022

Темы SciVal

Параметры

Сведения о финансировании

Краткое описание

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 code designs, 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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Keser, R.K., Ayanzadeh, A., Aghdam, O.A. (2023) Expert Systems with Applications

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Chen, X.-H., Ul-Haq, E., Zhou, C. (2019) Proceedings - 18th IEEE/ACIS International Conference on Computer and Information Science, ICIS 2019

Deep neural network compression via knowledge distillation for embedded applications

Jaiswal, B., Gajjar, N. (2018) 2017 Nirma University International Conference on Engineering, NUICON 2017

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Sze, Vivienne:

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Документы

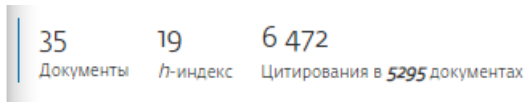
27

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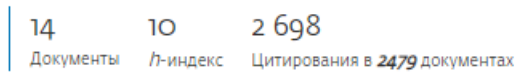
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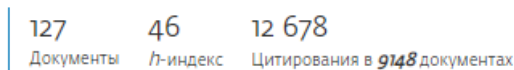
Chen, Yu-Hsin:



Yang, Tien-Ju:



Emer, Joel S.:



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

Тип документа
Обзор

Тип источника
Журнал

ISSN
08883270

DOI
10.1016/j.ymssp.2018.02.016

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Artificial intelligence for fault diagnosis of rotating machinery: A review

[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, Xi'an, 710049, China
^b School of Mechanical Engineering, Xi'an Jiaotong University, Xi'an, 710049, China
^c Chair on System Science and the Energetic Challenge, EDF Foundation, Laboratoire Genie Industriel, CentraleSupélec, Université Paris-Saclay Grande voie des Vignes, Châtenay-Malabry, 92290, France
^d Energy Departement, Politecnico di Milano, Milano, Italy

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Ключевые слова автора

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Включенные в указатель ключевые слова

Темы SciVal

Параметры

Сведения о финансировании

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**

coordination for machine learning model with massive data from rotary machine
Lee, Y., Park, B., Jo, M.
(2023) *Expert Systems with Applications*
Fault diagnosis of mechanical equipment in high energy consumption industries in China: A review
Sun, Y., Wang, J., Wang, X.
(2023) *Mechanical Systems and Signal Processing*
Shock detection of rotating machinery based on activated time-domain images and deep learning: An application to railway wheel flat detection
Ye, Y., Huang, C., Zeng, J.
(2023) *Mechanical Systems and Signal Processing*
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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*

Mechanical Systems and Signal Processing

Годы охвата Scopus: от 1987 до 2023

Издатель: Elsevier

ISSN: 0888-3270 E-ISSN: 1096-1216

Отрасль знаний: [Engineering: Civil and Structural Engineering](#) [Engineering: Aerospace Engineering](#) [Engineering: Mechanical Engineering](#) [Computer Science: Computer Science Applications](#) [Engineering: Control and Systems Engineering](#) [Computer Science: Signal Processing](#)

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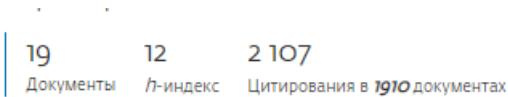
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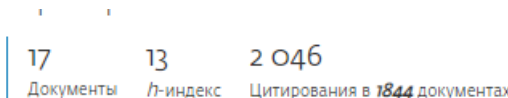
SNIP 2021
3.234

Индекс Хирша авторов:

Liu, Ruonan:



Yang, Boyuan:



Zio, Enrico:

1 147	77	24 856
Документы	<i>h</i> -индекс	Цитирования в 16854 документах

Chen, Xuefeng:

357	62	13 849
Документы	<i>h</i> -индекс	Цитирования в 9443 документах

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

Тип документа
Статья

Тип источника
Журнал

ISSN
2157-6904

DOI
10.1145/3298981

Смотреть больше

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 ; Сохранить всех в список авторов

1568^{99th}

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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

Concepts, taxonomy on attacks and defences, experimental study and challenges

Rodríguez-Barroso, N. , Jiménez-López, D. , Luzón, M.V. (2023) Information Fusion

PPT: A privacy-preserving global model training protocol for federated learning in P2P networks

Chen, Q. , Wang, Z. , Zhang, W. (2023) Computers and Security

An integrated federated learning algorithm for short-term load forecasting

Yang, Y. , Wang, Z. , Zhao, S. (2023) Electric Power Systems Research

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Sigg, S. , Nguyen, L.N. , Ma, J. (2021) 2021 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events, PerCom Workshops 2021

ABY3: A mixed protocol framework for machine learning

Mohassel, P. , Rindal, P. (2018) Proceedings of the ACM Conference on Computer and Communications Security

Privacy-Preserving Federated Learning

ACM Transactions on Intelligent Systems and Technology

Годы охвата Scopus: с 2010 по настоящий момент

Издатель: ACM

ISSN: 2157-6904 E-ISSN: 2157-6912

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Yang, Q.:

Liu, Y.:

Chen, T.:

23	10	2 055
Документы	<i>h</i> -индекс	Цитирования в 1792 документах

Tong, Y.:

106	31	4 541
Документы	<i>h</i> -индекс	Цитирование в 3050 документах

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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ISSN
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DOI
10.1177/2053951715622512

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Big Data and Society • Открытый доступ • Том 3, Выпуск 1 • 5 January 2016

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

Burrell, Jenna

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а School of Information, UC-Berkeley, Berkeley, CA, United States

773 99th percentile
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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 literatures 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.

Desai, J., Watson, D., Wang, V. (2022) Synthese

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User attitudes towards algorithmic opacity and transparency in online reviewing

Big Data and Society

Открытый доступ

Годы охвата Scopus: с 2014 по настоящий момент

Издатель: SAGE

E-ISSN: 2053-9517

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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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IEEE Access • Открытый доступ • Том 5, Страницы 20590 - 20616 • 25 September 2017 • Номер статьи 8051033

Data Mining and Analytics in the Process Industry: The Role of Machine Learning

Ge, Zhiqiang^a✉; Song, Zhihuan^b; Ding, Steven X.^b; Huang, Biao^c

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^a State Key Laboratory of Industrial Control Technology, College of Control Science and Engineering, Zhejiang University, Hangzhou, 310027, China

^b Institute for Automatic Control and Complex Systems, University of Duisburg-Essen, Duisburg, 47057, Germany

^c Department of Chemical and Materials Engineering, University of Alberta, Edmonton, T6G2G6, AB, Canada

574 99th percentile
Цитаты в Scopus

42,58
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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

Probabilistic learning of partial least squares regression model: Theory and industrial applications

IEEE Access

Открытый доступ

Годы охвата Scopus: с 2013 по настоящий момент

Издатель: IEEE

ISSN: 2169-3536

Отрасль знаний: (Engineering: General Engineering) (Computer Science: General Computer Science) (Engineering: Electrical and Electronic Engineering) (Materials Science: General Materials Science)

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