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信息及电气学科 文献资源利用方法概述

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刘敬晗 ljh228@tsinghua.edu.cn





目录

- 信息及电气学科重要文献资源介绍
- IEEE/IET Electronic Library (IEL) 检索方法
- ACM Digital Library 检索方法
- 课题文献调研的一般思路





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信息及电气学科 重要文献资源介绍





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- **图书** (book, monograph)
- **期刊** (serial, periodical)
- **报纸** (newspaper)
- **会议文献** (proceedings)
- **技术报告** (technical report)
- **专利** (patent)
- **标准** (standard)
- **学位论文** (thesis, dissertation)

从文献载体形态来看，分为纸本资源、电子资源等。



信息及电气学科的主要电子资源

■ 最重要的两个**全文库**：

期刊、会议、
标准、图书等

① IEEE (**电气电子工程师学会**)
/IET Electronic Library (**国际工程和技术学会**)

② The ACM Digital Library (**美国计算机协会**)





其他主要数据库（外文）

- Ei Compendex（期刊、会议等）★
- Web of Science（SCI、CPCI-S，期刊、会议）★
- Scopus（期刊、会议）收录量最大的文摘索引库
- Derwent Innovations Index（DII世界专利）
- INSPEC（期刊、会议）
- ProQuest Technology Research Database
 - Electronics and Communications Abstracts
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- ProQuest Dissertations and Theses - A&I（学位论文）
- Safari电子图书（IT类国外电子图书）
- Springer电子期刊及电子图书



其他主要数据库（中文）

- 中国知网
- 万方数据资源系统
- 维普期刊资源整合服务平台





IEEE

2006年3月，英国电气工程师学会（IEE）与英国企业工程师学会（IIE）合并组成英国工程技术学会IET。

IEEE Xplore Digital Library 数据平台收录IEEE（电气电子工程师学会）和IET的多种出版物，是 IEEE 旗下最完整、最有价值的在线数字资源。

内容覆盖了电气电子、航空航天、计算机、通信工程、生物医学工程、机器人自动化、半导体、纳米技术、电力等各种技术领域。

ACM

The ACM Digital Library 数据库收录了美国计算机协会（Association for Computing Machinery）的各种电子期刊、会议录、快报等文献的全文信息，还可以看到出版物信息。

全面集成了“在线计算机文献指南”（The Guide to Computing Literature）这个书目文摘数据库，旨在提供了解计算机和信息技术领域资源的窗口。



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IEEE/IET Electronic Library (IEL)





数据库简介

IEEE/IET Electronic Library (IEL)数据库提供IEEE（电气电子工程师学会）和IET（国际工程和技术学会）出版的：

- 170余种IEEE、20余种IET期刊与杂志.....总数达400多种（包括过刊及更名刊）；
- 每年1400多种IEEE会议录和20多种IET会议录，总量超过17000卷；
- 60多种VDE（德国电子协会）会议录，超过4500篇；
- 2600多种IEEE标准；
- 300多万篇全文文档，提供1988年以后的全文文献，部分历史文献回溯到1872年；
- 还有IEEE-Wiley电子书、MIT期刊/电子书、IBM Journal和Morgan & Claypool综述文集、FnT电子书等；
- 内容覆盖电气电子、航空航天、计算机、通信工程、生物医学工程、机器人自动化、半导体、纳米技术、电力等各种技术领域。



数据库简介



JCR特刊



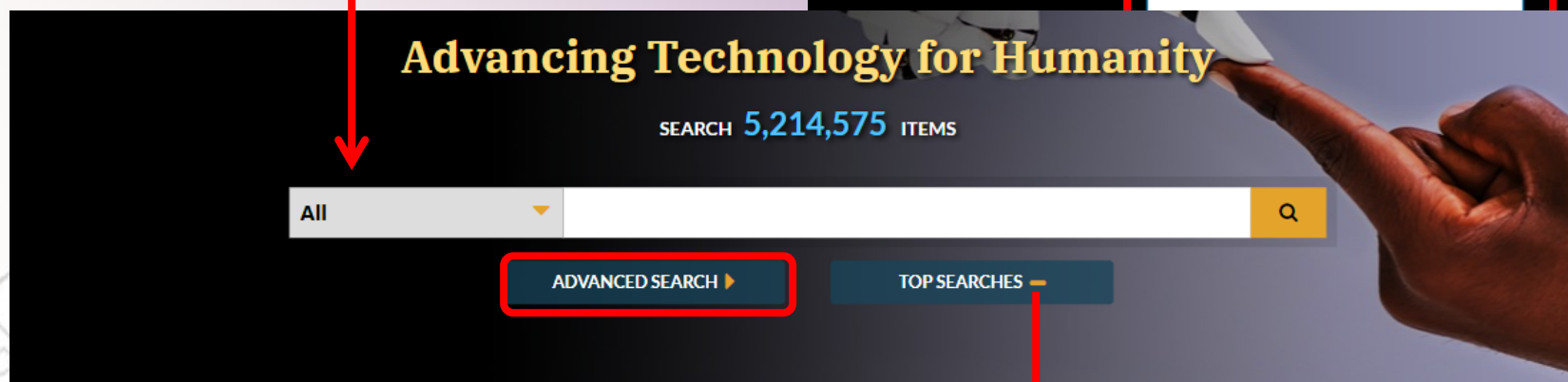
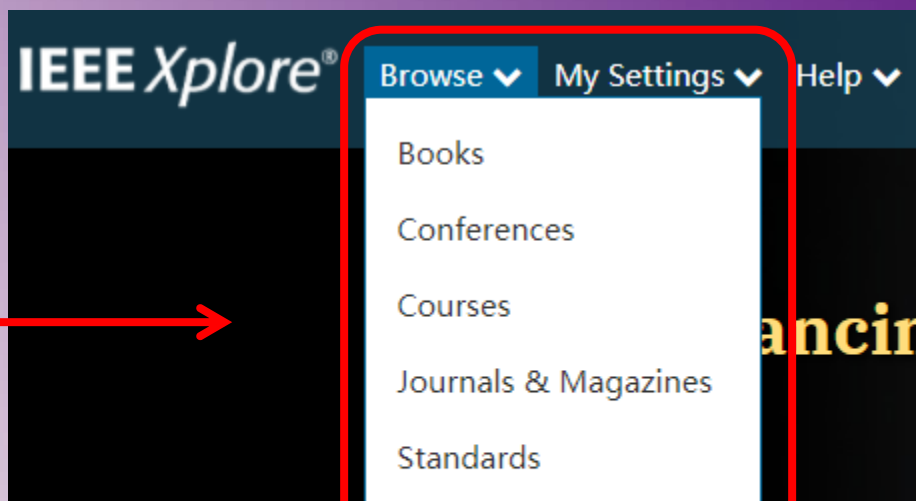
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2020年



查找文献的方式

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- 搜索 (Search)



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in

All Metadata



AND



Search Term

in

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AND



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1872

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Data Fields

Operators

Data Fields

All Metadata
Full Text & Metadata
Full Text Only
Document Title
Authors
Publication Title
Abstract
Index Terms
Accession Number
Article Number
Article Page Number
Author Affiliations
Author Keywords
Author ORCID
DOI
Funding Agency
IEEE Terms
INSPEC Controlled Terms
INSPEC Non-Controlled Terms

Operators

AND
OR
NOT
NEAR
ONEAR

There is a maximum of 40 search terms.

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Search 4,615,106 items

All ▾

algorithm NEAR/2 statistic*



Advanced Search

Other Search Options ▾

- 基本检索仅搜索元数据
- 不区分大小写
- 支持检索式
- 支持通配符
- 布尔表达式可以和位置算符配合使用

Eg: (A or B) NEAR/3 (C or D)



- "Document Title":computing
- "Authors":B. Smith
- "Publication Title":data mining
- "Abstract":LTE
- "Index Terms":resistor AND capacitor
- "Accession Number":16585141
- "Article Number":8263303
- "Article Page Number":1102305
- "Author Affiliations":IBM
- "Author Keywords":java
- "Author ORCID":0000-0001-6017-975X)
- "DOI":10.1109/TPDS.2017.2754366
- "Funding Agency":Smithsonian
- "IEEE Terms":lasers
- "INSPEC Controlled Terms":sensors
- "INSPEC Non-Controlled Terms":controls
- "ISBN":9780262347051
- "ISSN":2169-3536
- "Issue":10
- "Mesh_Terms":biomedical
- "Publication Number":5
- "Standards Dictionary Terms":wireless
- "Standards ICS Terms":35.240.80
- "Standard Number":802.11
- "Start Page":1
- "End Page":1



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Year

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1910

From

2010

artificial inte

artificial intelligence

Artificial Intelligence, Management Science and Electronic Commerce (AIMSEC), International Conference on

Artificial Intelligence and Computational Intelligence (AICI), International Conference on

Artificial Intelligence for Applications, Conference on

Artificial Intelligence, MICAI, Mexican International Conference on

Artificial Intelligence and Signal Processing (AISP), International Symposium on

Artificial Intelligence, Modelling and Simulation (AIMS), International Conference on

Artificial Intelligence (AICAI), Amity International Conference on

Artificial Intelligence, JCAI, International Joint Conference on

Artificial Intelligence and Data Processing Symposium (IDAP), International

Artificial Intelligence and Education (ICAIE), International Conference on

Artificial Intelligence in Information and Communication (ICAIC), International Conference on

Artificial Intelligence and Knowledge Engineering (AIKE)

Artificial Intelligence and Robotics (IRANOPEN)

Artificial Intelligence Systems (ICAIS), IEEE International Conference on

Artificial Intelligence and Information Technology (ICAIT), International Conference of

Artificial Intelligence for Industrial Applications, IEEE Proceedings of the International Workshop on



可以通过“检索短语

- 支持通配符

“software program*” →
software programmers/programming, 等.

- 短语检索的标准

- 不区分大小写
- 不区分标点符号





布尔和邻近运算符

- 可以在初始搜索界面或在优化搜索结果时再检索。
- 必须全部大写。
- 如果不包括在括号内，则优先顺序为：

ONEAR/NEAR > NOT > AND > OR





布尔和邻近运算符

	基本检索	高级检索	命令检索
AND/OR/NOT	√	√ 不在单一的检索框内	√
NEAR/ONEAR	√	X	√
字段检索	√	√	√

NEAR/# 相隔不超过#个单词，前后顺序不限

ONEAR/# 相隔不超过#个单词，前后顺序固定





通配符

	字符	描述
通配符	* ?	可用于措辞控制，可与NEAR #/ ONEAR # 一起使用 *: 单个、多个、无 ?: 单个
精确匹配	""	对“”内的文字精确匹配查找，中间无任何其他字符

- 可在单词**结尾**使用
- 可在单词**开头**使用（左截断）
- 可以用在词的**中间**
- 支持**全文**搜索
- 支持**短语**搜索，但是通配符不能用于词干



使用限制

- 每次搜索的最大通配符数：5（可以进行二次搜索）
- 最小字符数：3（作者例外）
- 作者最小字符数：2
- 每个条款的最大术语数：15（高级检索/命令检索）
- 所有子句的最大搜索词数：40（不包括字段名或运算符）
- 在引号中搜索短语，如 “harmonics suppression”，将被视为两个术语。
- 在near和onear运算符的任一侧都不允许使用任何数量的术语。





"Document Title":java software program→

题目中, "java"、"software" 和 "program" 都会有

下面两条的意思是一样的:

"Document Title":bitcoin AND

"Document Title":blockchain AND

"Document Title":technology



"Document Title": bitcoin blockchain technology

"Document Title": computing NOT cloud

"Document Title": Fast ONEAR/2 "Document Title":Statistic*

All Metadata
Full Text & Metadata
Full Text Only
Document Title
Authors
Publication Title
Abstract
Index Terms
Accession Number
Article Number
Article Page Number
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INSPEC Non-Controlled Terms
ISBN
ISSN
Issue
Mesh_Terms
Publication Number
Parent Publication Number
Standards Dictionary Terms
Standards ICS Terms
Standard Number



Search within results



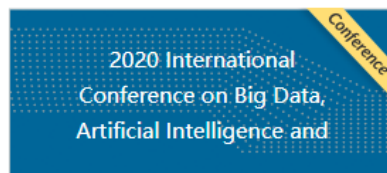
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Year

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1914 2021

From To

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- ☐ **A survey of data partitioning and sampling methods to support big data analysis**
- Mohammad Sultan Mahmud ; Joshua Zhexue Huang ; Salman Salloum ; Tamer Z. Emara ;
Kuanishbay Sadatdiynov
Big Data Mining and Analytics
Year: 2020 | Volume: 3, Issue: 2 | Journal Article | Publisher: TUP
Cited by: Papers (2)

► Abstract (6772 Kb)

- ☐ **An OWL Ontology for Supporting Semantic Services in Big Data Platforms**
- Domenico Redavid ; Roberto Corizzo ; Donato Malerba
2018 IEEE International Congress on Big Data (BigData Congress)
Year: 2018 | Conference Paper | Publisher: IEEE
Cited by: Papers (1)

► Abstract (370 Kb)

- ☐ **Big Data Quality Framework: Pre-Processing Data in Weather Monitoring Application**
- Ashish Juneja ; Nripendra Narayan Das
2019 International Conference on Machine Learning, Big Data, Cloud and Parallel
Computing (COMITCon)
Year: 2019 | Conference Paper | Publisher: IEEE
Cited by: Papers (3)

► Abstract (171 Kb)

- ☐ **Integrated access to big data polystores through a knowledge-driven framework**
- Justin McHugh ; Paul E. Cuddihy ; Jenny Weisenberg Williams ; Kareem S. Aggour ; Vijay S.
Kumar ; Varish Mulwad

Standards Dictionary Terms

? Top 25 关联术语

- big endian
- little endian
- encapsulation
- link
- node
- Authenticator
- authentication and key management (AKM) suite
- authorized
- byte
- channel
- cipher suite

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NOT analysis



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☐ Standards (20)

Showing 1-25 of 27,965 for **big data** × **NOT analysis** ×

☐ Conferences (23,480)

☐ Journals (2,980)

☐ Magazines (947)

☐ Early Access Articles (516)

☐ Books (27)

☐ Standards (15)

- 检索式
- 字段命令
- 每次搜索最多有5个通配符





Advanced Search ?

全文检索和字段检索

Advanced Search

Command Search

Citation Search

Enter keywords and select fields.

Search Term
deep learning

in

Author Keywords



AND

Search Term
Tsinghua Univ*

in

All Metadata



AND

Search Term

in



Publication Year

☐ Documents Added Between: 10/14/2020 and 10/21/2020

☐ Specify Year Range

1872

2021



From

To

1872

2021

- All Metadata
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- Abstract
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- Accession Number
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Advanced Search ?

Advanced Search

Command Search

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Enter keywords, phrases, or a Boolean expression

Use the drop down lists to choose Data Fields and Operators. [Learn how to use Boolean expressions in Command Search.](#)

Data Fields ▼

Operators ▼

Operators need to be in all caps - i.e. AND/OR/NOT/NEAR/ONEAR. There is a maximum of 20 search terms.

Search Expression Examples ?

"Author Keywords":deep learning AND "Author Affiliations":Tsinghua Univ*

Reset All

Search



- "First Name":E.W. AND "Last Name":Hancock
- "Publication Title":computing AND "Volume":1 AND "Issue":1 AND "Start Page":1
- "Publication Title":engineering management AND "Publication_Year":2017 OR "Publication_Year":2018
- 搜索标准 (Standards)
P802.1Q-REV/D2.2
- 组合搜索
(touchscreen OR (touch NEAR/2 screen)) AND haptic*
- 被空格环绕的特殊字符搜索：
 - AT&T, AT &T, AT& T and "AT & T" ✓,
 - AT & T ✗



A deep bidirectional long short-term memory based multi-scale approach for music dynamic emotion prediction

Publisher: IEEE

Cite This

PDF

Xinxing Li; Haishu Xianyu; Jiashen Tian; Wenxiao Chen; Fanhang Meng; Mingxing Xu; Lianhong Cai [All Authors](#)

6
Paper
Citations

453
Full
Text Views



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Audio-Visual Emotion Recognition with Capsule-like Feature Representation and Model-Based Reinforcement Learning

2018 First Asian Conference on Affective Computing and Intelligent Interaction (ACII Asia)
Published: 2018

Linear regression-based adaptation of music emotion recognition models for personalization
2014 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
Published: 2014

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Abstract

Document Sections

1. Introduction
2. Dblstm-Elm Model
3. Experiment Settings
4. Results and Discussion
5. Conclusions

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Abstract:

Music Dynamic Emotion Prediction is a challenging and significant task. In this paper, We adopt the dimensional valence-arousal (V-A) emotion model to represent the dynamic emotion in music. Considering the high context correlation among the music feature sequence and the advantage of Bidirectional Long Short-Term Memory (BLSTM) in capturing sequence information, we propose a multi-scale approach, Deep BLSTM (DBLSTM) based multi-scale regression and fusion with Extreme Learning Machine (ELM), to predict the V-A values in music. We achieved the best performance on the database of Emotion in Music task in MediaEval 2015 compared with other submitted results. The experimental results demonstrated the effectiveness of our novel proposed multi-scale DBLSTM-ELM model.

Published in: 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

Date of Conference: 20-25 March 2016

INSPEC Accession Number: 16021474

Date Added to IEEE Xplore: 19 May 2016

DOI: 10.1109/ICASSP.2016.7471734

► ISBN Information:

Publisher: IEEE

Electronic ISSN: 2379-190X

Conference Location: Shanghai, China

Top Organizations with Patents on Technologies Mentioned in This Article



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SECTION 1. Introduction

Music is an essential part of human life. In today's digital era, people can have access to music through network and electronic products expediently. Emotion, as one of crucial



Discover
the powerful
new API



Authors

Figures

References

Citations

By Papers

By Pat

Cited in Papers - IEEE (5) | 4

1. Michael Fairhurst, Cheng L
analysis of predicting person
pp. 369-378, 2017.

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2. Yanxiong Li, Xianku Li, Yuh
Scene Classification Using Deep
Image Processing (ICALIP) 2017

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3. Stavros Ntalampiras, Feder
Electroencephalographic Music
Computing (ICCC) 2019 IEEE

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References in this Article

- 1 An improved valence-arousal emotion space for video affective content representation and recognition
- 2 A circumplex model of affect
- 3 Regression analysis: Theory, methods, and applications
- 4 A tutorial on support vector regression
- 5 A regression approach to music emotion recognition

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- 4 Research on Identity Recognition Algorithm Based on Speech Signal
- 5 Bidirectional Convolutional Recurrent Sparse Network (BCRSN): An Efficient Model for Music Emotion Recognition



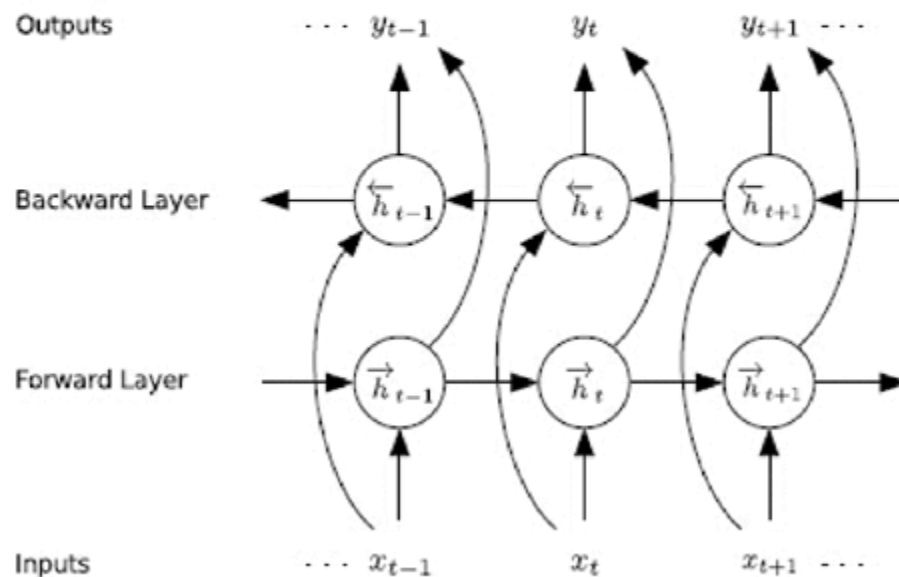
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Figures

Fig. 1.

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Bidirectional RNN



Author



Affiliation



Publication Title



Publisher



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☐ **Block Deep Neural Network-Based Signal Detector for Generalized Spatial Modulation**

Hasan Albinsaid;Keshav Singh;Sudip Biswas;Chih-Peng Li;Mohamed-Slim Alouini
IEEE Communications Letters

Year: 2020 | Early Access Article | Publisher: IEEE

▶ Abstract

(2364 Kb)



Code

☐ **Multi-Agent Actor-Critic Network-based Incentive Mechanism for Mobile Crowdsensing in Industrial Systems**

Bo Gu;Xinxin Yang;Ziqi Lin;Weiwei Hu;Mamoun Alazab;Rupak Kharel
IEEE Transactions on Industrial Informatics

Year: 2020 | Early Access Article | Publisher: IEEE

▶ Abstract

(1570 Kb)



Code

☐ **Streaming convolutional neural networks for end-to-end learning with multi-megapixel images**

Johannes Henricus Francisca Maria Pinckaers;Bram van Ginneken;Geert Litjens
IEEE Transactions on Pattern Analysis and Machine Intelligence

Year: 2020 | Early Access Article | Publisher: IEEE

▶ Abstract

(39873 Kb)



Code



Code Ocean: 单独注册一个账号

Code: PythonMulti-Agent Actor-Critic Network-Based Incentive Mechanism for...

Multi-Agent Actor-Critic Net... (Bo G...)

Files: README.md x View Raw

Commands

Tabs

Reproducibility

Reproducible Run

or launch a cloud workstation

lab Studio jupyter >_ Shogun

Timeline

Sep 30, 2020
Published Version 1.0
Currently viewing

Author ran 00:12:43
Sep 30, 2020

Published Result

- figures
- model
- train_data
- output 4.67 KB

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Morgan & Claypool 综述文集数据库

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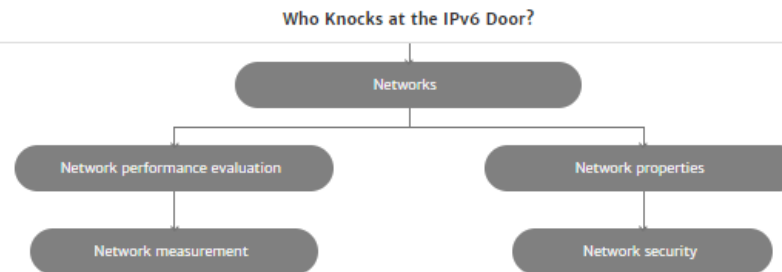
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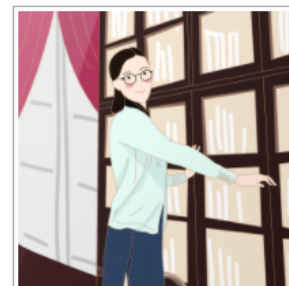
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