

组号: 第 16 组



山东师范大学
SHANDONG NORMAL UNIVERSITY

信息科学与工程学院实验报告

《计算智能》

Computational Intelligence

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班级:	计工本 1902
导师:	张庆科
时间:	2021 年 4 月 16 日

实验报告 （一）

基本要求：报告正文包含实验目的、实验内容、实验步骤、实验结果（图表）、实验总结五个部分。报告中若涉及算法，请在附录部分给出算法完整源码，报告撰写完毕后请提交 PDF 格式版本到网页版云班课。

一、实验目的

1. 熟悉文献概念、类型及引用方式
2. 掌握文献检索的两种基本方法
3. 熟悉英文文献数据库及检索类型
4. 能够独立运用文献管理软件下载阅读文献
5. 培养严谨独立的科研精神，提升信息情报获取能力

二、实验内容

1. 利用学术搜索引擎(如谷歌学术)搜索近 5 年发表的主题为” survey of genetic algorithm ” 的 10 篇期刊论文，按照论文引用率从高到低排序.
2. 通过 web of science、EI viliage 网站检索计算机科学领域近 5 年发表的主题为 “novel evolution algorithm” 的论文各 10 篇, 导出文献对应文件
3. 本地安装英文文献管理软件 Endnote，将上述.bib 文献导入到文献管理软件中，批量下载.bib 中的所有文献全文.
4. 本地安装中文文献管理软件 E-Study，在中国知网检索近 5 年发表的主题为 “遗传算法改进” 的论文 50 篇，通过 E-Study 批量下载文献到本地.
5. 在文献管理软件内阅读 1 篇自己搜索到的英文文献和中文文献，并在电子文献中做好注释标记笔记.
6. 将上述文献检索过程以文字图表方式呈现在实验报告中，必要时可以将检索截图粘贴到实验报告.
7. 将所有下载的中英文文献按照国标文献引用格式编排在实验报告附录内（提示可基于文献管理软件导入文献题录到 word，切勿手动录入文献）.

1. 本次实验作业非小组作业，请独立完成，诚信作业，严禁抄袭

2. 实验报告提交格式为 PDF，请提交 PDF 版本实验报告到网页版云班课
3. 作业提交截止时间为：2021 年 4 月 25 日晚 22:00，建议提前提交，过期后系统自动关闭提交权限，无法提交作业

“古之成大事者，不唯有超世之才，亦必有坚忍不拔之志” — 苏轼

三、实验步骤

1. 利用必应学术搜索近 5 年发表的主题为”survey of genetic algorithm ”的 10 篇期刊论文，按照论文引用率从高到低排序。

The screenshot shows the Microsoft Bing Academic search interface. The search bar contains the text "survey of genetic algorithm". Below the search bar, there are tabs for "网页" (Web), "图片" (Images), "视频" (Videos), "学术" (Academic), "词典" (Dictionary), and "地图" (Map). The "学术" tab is selected. On the left, there is a date filter set to "2016" and a "确认" (Confirm) button. On the right, there is a "按引用数" (Sort by Citations) dropdown menu. The search results are displayed as a list of articles, each with a title, a link to the full text, and a brief abstract. The first article is "Genetic algorithm for building optimization - State-of-the-art survey" by University of Miami's Research Profiles. The second article is "A review of applications of genetic algorithms in operations management - ScienceDirect". The third article is "Experimental study of seeding in genetic algorithms with non-binary genetic representation" by SpringerLink. The fourth article is "Survey of Different Load Balancing Approach-Based Algorithms in Cloud Computing: A Comprehensive Review" by SpringerLink. The fifth article is "Genetic algorithms in wireless networking: techniques, applications, and issues" by SpringerLink. The sixth article is "Gene Expression Programming: A Survey" by IEEE Journals & Magazine. The seventh article is "A survey of randomized algorithms for training neural networks - ScienceDirect". The eighth article is "Task scheduling techniques in cloud computing: A literature survey - ScienceDirect". The ninth article is "BuildingsLife - The use of genetic algorithms for maintenance plan optimization - ScienceDirect". The tenth article is "A genome-wide survey of mutations in the Jurkat cell line" by BMC Genomics. At the bottom, there is a pagination bar showing "91,600 条结果" and a list of numbers from 1 to 5, with "1" selected. The footer contains the Microsoft Academic logo, a statement about providing global multi-language document search services, a feedback link, and a copyright notice for 2021 Microsoft.

Microsoft Bing

survey of genetic algorithm

网页 图片 视频 学术 词典 地图

按引用数

时间

2016 2021

确认

Genetic algorithm for building optimization - State-of-the-art survey — University of Miami's Research Profiles

<https://miami.pure.elsevier.com/en/publications/genetic-algorithm-for-building...>

T. Genetic algorithm for building optimization - State-of-the-art survey. AU - Li, Tiejun. AU - Shao, Guang. AU - Zuo, Wangda. AU - Huang, Sen. PY - 2017/2/24. Y1 - 2017/2/24. N2 - Model-based build...

A review of applications of genetic algorithms in operations management - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S095219781830174X>

Other multi-objective genetic algorithm (MOGA) studies on supply network design include Farahani and Elahipour (2009). 3.1.3. Job design and work. OM involves determining the number of types of human ...

Experimental study of seeding in genetic algorithms with non-binary genetic representation | SpringerLink

<https://link.springer.com/article/10.1007/s10845-016-1204-3>

Seeding is a technique used to leverage population diversity in genetic algorithms. This paper presents a quick survey of different seeding approaches, and evaluates one of the promising ones called the Seed...

Survey of Different Load Balancing Approach-Based Algorithms in Cloud Computing: A Comprehensive Review | SpringerLink

https://link.springer.com/chapter/10.1007/978-661-10-8055-5_10

This survey paper presents a comprehensive and comparative study of various load balancing algorithms. The study also portrays the merits and demerits of all the state-of-the-art-schemes which may prompt th...

Genetic algorithms in wireless networking: techniques, applications, and issues | SpringerLink

<https://link.springer.com/article/10.1007/s00500-016-2070-9>

Xiao Y, Chen CP, Wang Y (2000) A near optimal call admission control with genetic algorithm for multimedia services in wirelessmobile networks. In: National aerospace and electronics conference, 20...

Gene Expression Programming: A Survey [Review Article] - IEEE Journals & Magazine

<https://ieeexplore.ieee.org/document/7983467>

Gene Expression Programming: A Survey [Review Article] Abstract: Abstract Gene Expression Programming (GEP) is a popular and established evolutionary algorithm for automatic generation of co...

A survey of randomized algorithms for training neural networks - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S00202551600058X>

Population-based algorithms, such as genetic algorithm, particle swarm optimization, immune approaches, multi-objective optimization, are known to improve the training of neural network. Other ...

Task scheduling techniques in cloud computing: A literature survey - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S0167739X17321519>

It offers an experimental analysis of the algorithm's competence. In addition, to achieve the maximum utilization of resources, they incorporated research by Kaleeswaran et al. on the dynamic scheduling of ...

BuildingsLife - The use of genetic algorithms for maintenance plan optimization - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S095952516001864>

The genetic algorithm works with the transition probability established by Markov chains, which are represented graphically in Fig. 5 (as an example, a building in degradation level 0, for paint peeling, wit...

A genome-wide survey of mutations in the Jurkat cell line | BMC Genomics | Full Text

<https://bmcbgenomics.biomedcentral.com/articles/10.1186/s12894-016-4718-6>

The Jurkat cell line has an extensive history as a model of T cell signaling. But at the turn of the 21st century, some expression irregularities were observed, raising doubts about how closely the cell line par...

91,600 条结果

1 2 3 4 5

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2. 通过 web of science 网站检索计算机科学领域近 5 年发表的主题为 “novel evolution algorithm” 的论文 10 篇。

The screenshot displays the Web of Science search interface. At the top, the 'Web of Science' logo is visible. Below it, a search bar contains the text 'novel evolution algorithm'. To the right of the search bar, there is a dropdown menu for '主题' (Topic) and a '检索' (Search) button. Below the search bar, there is a '时间跨度' (Time Span) dropdown menu set to '最近 5 年' (Last 5 years). The search results are displayed in a list format, showing 10 results. Each result includes a title, authors, journal name, volume, issue, pages, and publication date. The results are sorted by '默认排序' (Default Sort). The interface also includes a sidebar with filters for '精炼检索结果' (Refine Search Results), '出版年' (Publication Year), '研究领域' (Research Field), '数据库' (Database), '文献类型' (Document Type), '基金资助机构' (Funding Agency), and '作者' (Author). The footer of the page shows the 'Clarivate' logo and copyright information.

Web of Science

75% of researchers recommend the new Web of Science!

选择数据库: 所有数据库

基本检索 | 被引参考文献检索 | 高级检索

novel evolution algorithm

主题

检索

时间跨度: 最近 5 年

检索结果: 3,433

您的检索: 主题: novel evolution algorithm

精炼检索结果

在如下结果集中检索...

过滤结果依据:

出版年

研究领域

数据库

文献类型

基金资助机构

作者

作者: 翻译

查看全部选项

分析检索结果

排序方式: 默认排序 | 被引频次 | 按相关性 | 按年代 | 更多

显示: 每页 10 条

1. Cooperative Deep Dynamic Feature Extraction and Variable Time-Delay Estimation for Industrial Quality Prediction

作者: Yao, Li; Ge, Zhiqiang

IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 卷: 17 期: 6 页: 3762-3792 出版年: JUN 2021

2. SIMULTANEOUSLY RECOVERING BOTH DOMAIN AND VARYING DENSITY IN INVERSE GRAVIMETRY BY EFFICIENT LEVEL-SET METHODS

作者: Li, Wenbin; Qian, Jianliang

INVERSE PROBLEMS AND IMAGING 卷: 15 期: 3 页: 387-413 出版年: JUN 2021

3. Evolving fuzzy reasoning approach using a novel nature-inspired optimization tool

作者: Das, Amit Kumar; Pruthi, Ritesh; Pruthi, Dilip Kumar

EXPERT SYSTEMS WITH APPLICATIONS 卷: 170 文章号: 114577 出版年: MAY 15 2021

4. Identification by means of a genetic algorithm of nonlinear damping and stiffness of continuous structures subjected to large-amplitude vibrations. Part I: single-degree-of-freedom responses

作者: Le Guirant, Stanislas; Amabili, Marco

MECHANICAL SYSTEMS AND SIGNAL PROCESSING 卷: 153 文章号: 107470 出版年: MAY 15 2021

5. An enhanced differential evolution algorithm with a new oppositional-mutual learning strategy

作者: Xu, Yanfang; Yang, Xiaofeng; Yang, Zhiyi; 等

NEUROCOMPUTING 卷: 435 页: 162-175 出版年: MAY 7 2021

6. Binary team game algorithm based on modulo operation for knapsack problem with a single continuous variable

作者: He, Yichao; Hao, Xiang; Li, Wenbin; 等

APPLIED SOFT COMPUTING 卷: 103 文章号: 107180 出版年: MAY 2021

7. Adaptive time series prediction and recommendation

作者: Wang, Yang; Han, Lixin

INFORMATION PROCESSING & MANAGEMENT 卷: 58 期: 3 文章号: 102494 出版年: MAY 2021

8. A novel decomposition-based multiobjective evolutionary algorithm using improved multiple adaptive dynamic selection strategies

作者: Xie, Yingbo; Qiao, Junfei; Wang, Ding; 等

INFORMATION SCIENCES 卷: 556 页: 472-494 出版年: MAY 2021

9. New hybrid-based approach for improving the accuracy of coastal aquifer vulnerability assessment maps

作者: Khosravi, Khabat; Bordbar, Mojgan; Paryani, Sina; 等

SCIENCE OF THE TOTAL ENVIRONMENT 卷: 767 文章号: 145416 出版年: MAY 1 2021

10. DEBOHID: A differential evolution based oversampling approach for highly imbalanced datasets

作者: Kaya, Emre; Korkmaz, Sedat; Sahman, Mehmet Akif; 等

EXPERT SYSTEMS WITH APPLICATIONS 卷: 169 文章号: 114482 出版年: MAY 1 2021

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3. 通过 Engineering Village 网站检索计算机科学领域近 5 年发表的主题为 “novel evolution algorithm” 的论文 10 篇。

The screenshot shows the Engineering Village search results page for the query "novel evolution algorithm". The search bar at the top contains the query, and the results section displays 3,418 records. The left sidebar contains various filters, and the main content area lists 10 search results.

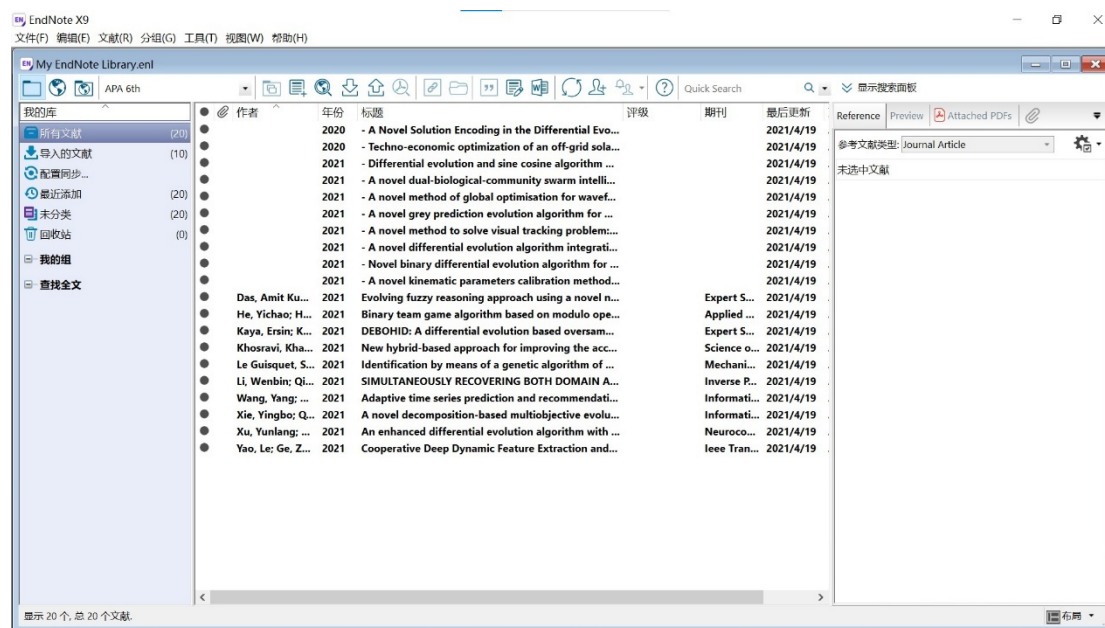
Search Results:

- A novel kinematic parameters calibration method for industrial robot based on Levenberg-Marquardt and Differential Evolution hybrid algorithm**
Luo, Guoyue (State Key Laboratory of Mechanical Transmission, Chongqing University, Chongqing; 400044, China); Zeng, Lai; Wang, Ziling; Lv, Chong; Ou, Jing; Huang, Yun Source: *Robotics and Computer-Integrated Manufacturing*, 2021
Database: Compindex
Document type: Journal article (JA)
Detailed Show preview Full text
- Novel binary differential evolution algorithm for knapsack problems**
Ali, Ismail M. (School of Engineering and Information Technology, University of New South Wales, Canberra); Kasmir, Kathyn Source: *Information Sciences*, v 542, p 177-194, 4 January 2021
Database: Compindex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (2) Full text
- A novel differential evolution algorithm integrating opposition-based learning and adjacent two generations hybrid competition for parameter selection of SVM**
Li, Jun (College of Computer Science and Technology, Wuhan University of Science and Technology, Wuhan; Hubei; 430065, China); Fang, Guokang Source: *Evolving Systems*, v 12, n 1, p 207-215, March 2021
Database: Compindex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (1) Full text
- A novel method to solve visual tracking problem: hybrid algorithm of grasshopper optimization algorithm and differential evolution**
Reddy, K. Narsimha (ECE Department, Koneru Lakshmaiah Education Foundation (Deemed to be University), Research Scholar, Green Fields, Vaddeswaram Guntur District, Hyderabad; Andhra Pradesh; 522502, India); Bojja, Polaiah Source: *Evolutionary Intelligence*, 2021
Article in Press
Database: Compindex
Document type: Article in Press
Detailed Show preview Full text
- A novel grey prediction evolution algorithm for multimodal multiobjective optimization**
Zhou, Ting (School of Information and Mathematics, Yangtze University, Jingzhou, Hubei, China); Hu, Zhongbo; Zhou, Quan; Yuan, Shixiong Source: *Engineering Applications of Artificial Intelligence*, v 100, April 2021
Database: Compindex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (1) Full text
- A novel method of global optimisation for wavefront shaping based on the differential evolution algorithm**
Hua, Yingzi (School of Electronic Engineering and Optoelectronic Technology, Nanjing University of Science and Technology, Nanjing; 210094, China); Su, Xiubao; Zhou, Shenghang; Chen, Qian; Gu, Guohua; Bai, Hongyang; Li, Wei Source: *Optics Communications*, v 481, February 15, 2021
Database: Compindex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (1) Full text
- Techno-economic optimization of an off-grid solar/wind/battery hybrid system with a novel multi-objective differential evolution algorithm** (Open Access)
Yang, Yong (School of Energy and Power Engineering, Nanjing Institute of Technology, Nanjing; 211167, China); Li, Rong Source: *Energies*, v 13, n 7, 2020
Database: Compindex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (4) Full text
- A novel dual-biological-community swarm intelligence algorithm with a commensal evolution strategy for multimodal problems**
Ren, Hui (State Key Laboratory of Media Convergence of Communication, School of Information and Communication Engineering, Communication University of China, No.1 Dingfuzhuang East Street, Chaoyang District, Beijing; 100024, China); Shen, Xiaochen; Jia, Xiaojun Source: *Journal of Supercomputing*, 2021
Article in Press
Database: Compindex
Document type: Article in Press
Detailed Show preview Full text
- Differential evolution and sine cosine algorithm based novel hybrid multi-objective approaches for numerical association rule mining**
Atay, Elif Varol (Department of Software Engineering, Firat University, Elazig, Turkey); Alatas, Bilal Source: *Information Sciences*, v 554, p 198-221, April 2021
Database: Compindex
Document type: Journal article (JA)
Detailed Show preview Full text
- A Novel Solution Encoding in the Differential Evolution Algorithm for Optimizing Tourist Trip Design Problems**
Tachanatt, Dimitra (Technical University of Crete, School of Production Engineering and Management University Campus, Chania; Crete, Greece); Rigakis, Manousos; Taxis, Andromachi; Marinaki, Magdalene; Marinakis, Yannis; Matsatsinis, Nikolaos Source: *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, v 11968 LNCS, p 253-267, 2020, *Learning and Intelligent Optimization - 13th International Conference, LION 13, Revised Selected Papers*
Database: Compindex
Document type: Conference article (CA)
Detailed Show preview Full text

4. 通过 web of science、EI viliage 网站检索计算机科学领域近 5 年发表的主题为“novel evolution algorithm”的论文 10 篇, 导出文献对应文件。

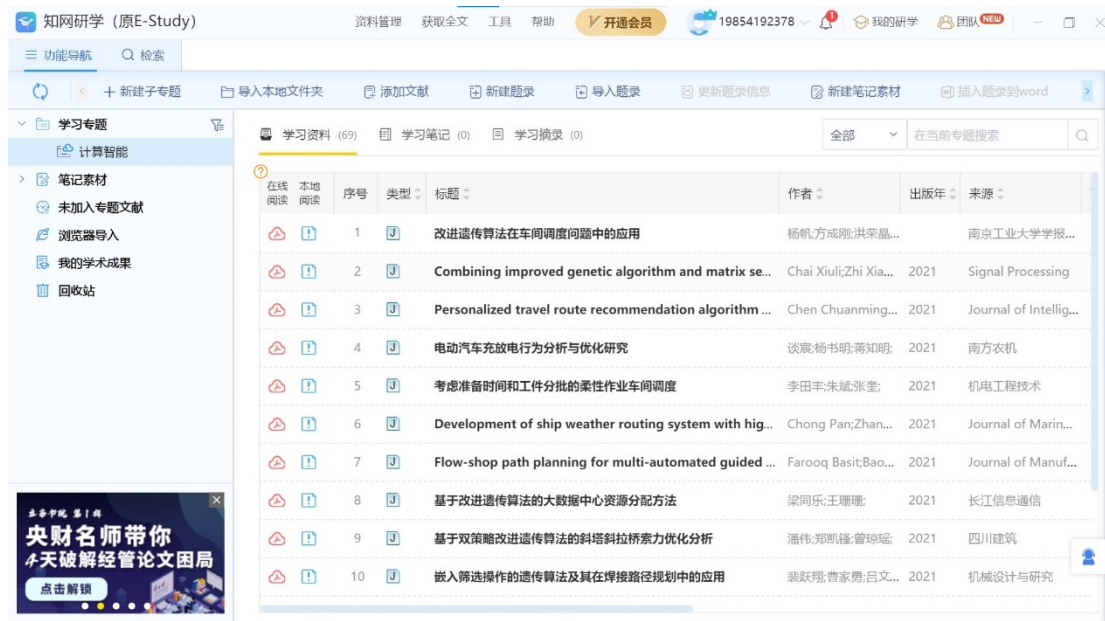
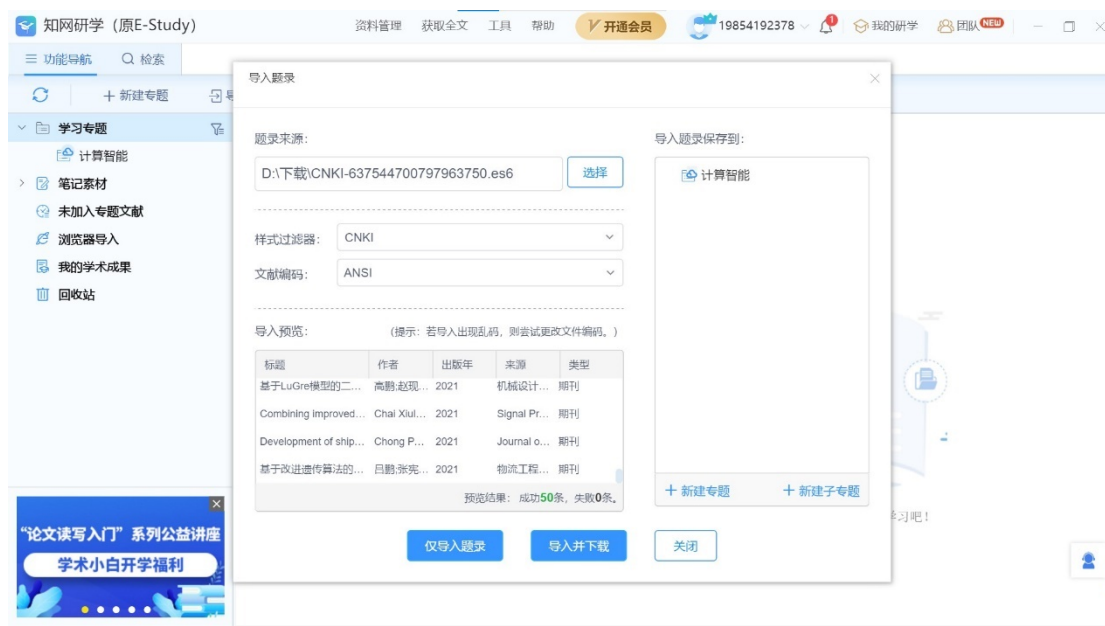
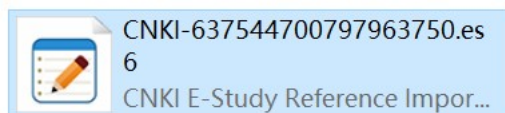


5. 本地安装英文文献管理软件 Endnote, 将上述.bib 文献导入到文献管理软件中。



6. 本地安装中文文献管理软件 E-Study, 在中国知网检索近 5 年发表的主题为“遗传算法改进”的论文 50 篇, 通过 E-Study 批量下载文献到本地。





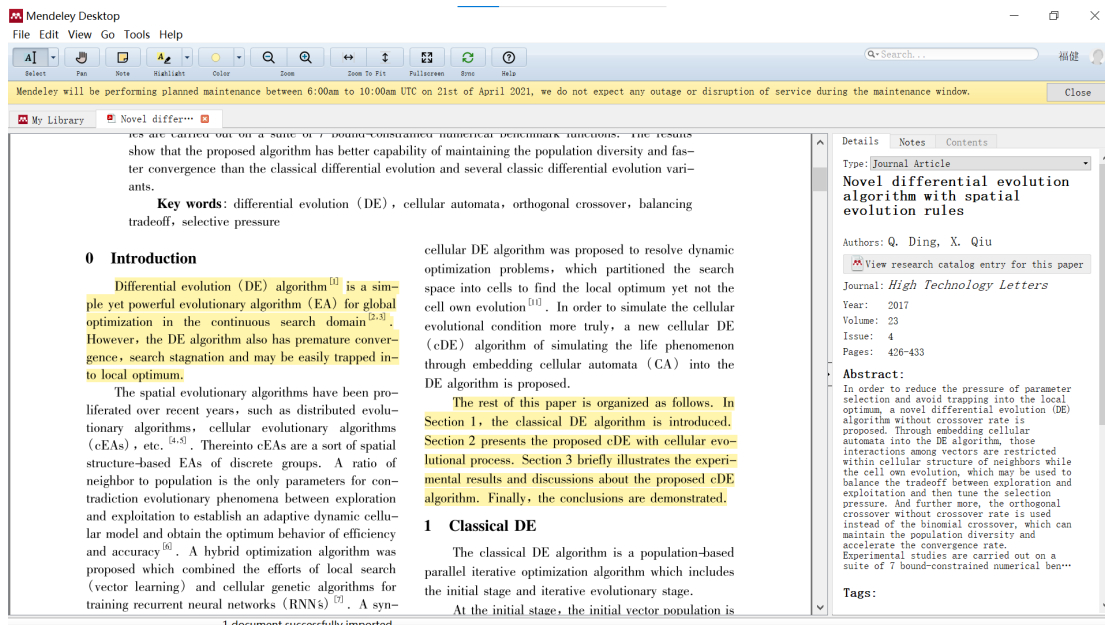


7. 在文献管理软件内阅读 1 篇自己搜索到的英文文献和中文文献，并在电子文献中做好注释标记笔记.

中文:



英文:



四、实验总结

本次实验让我学会了搜索、下载文件并熟练使用相关软件,对以后科研非常有帮助。就是在一些英文文献的获取方面有些困难,但也通过各种方式解决了。

附录:程序源码(借助 Highlight 软件导入带有行号的代码,添加必要注释信息)

英文文献:

- 01 - A Novel Solution Encoding in the Differential Evolution Algorithm for Optimizing Tourist Trip Design Problems. (2020). - 11968 LNCS, - 267.
- 02 - Techno-economic optimization of an off-grid solar/wind/battery hybrid system with a novel multi-objective differential evolution algorithm. (2020). - 13(- 7).
- 03 - Differential evolution and sine cosine algorithm based novel hybrid multi-objective approaches for numerical association rule mining. (2021). - 554, - 221.
- 04 - Novel binary differential evolution algorithm for knapsack problems. (2021). - 542, - 194.
- 05 - A novel differential evolution algorithm integrating opposition-based learning and adjacent two generations hybrid competition for parameter selection of SVM. (2021). - 12(- 1), - 215.
- 06 - A novel dual-biological-community swarm intelligence algorithm with a commensal evolution strategy for multimodal problems. (2021).
- 07 - A novel grey prediction evolution algorithm for multimodal

- multiobjective optimization. (2021). - 100.
- 08 - A novel kinematic parameters calibration method for industrial robot based on Levenberg-Marquardt and Differential Evolution hybrid algorithm. (2021). - 71.
- 09 - A novel method of global optimisation for wavefront shaping based on the differential evolution algorithm. (2021). - 481.
- 10 - A novel method to solve visual tracking problem: hybrid algorithm of grasshopper optimization algorithm and differential evolution. (2021).
- 11 Das, A. K., Pratihari, B., & Pratihari, D. K. (2021). Evolving fuzzy reasoning approach using a novel nature-inspired optimization tool. Expert Systems with Applications, 170. Retrieved from <Go to ISI>://WOS:000626414500007. doi:10.1016/j.eswa.2021.114577
- 12 He, Y., Hao, X., Li, W., & Zhai, Q. (2021). Binary team game algorithm based on modulo operation for knapsack problem with a single continuous variable. Applied Soft Computing, 103. Retrieved from <Go to ISI>://WOS:000634171200002. doi:10.1016/j.asoc.2021.107180
- 13 Kaya, E., Korkmaz, S., Sahman, M. A., & Cinar, A. C. (2021). DEBOHID: A differential evolution based oversampling approach for highly imbalanced datasets. Expert Systems with Applications, 169. Retrieved from <Go to ISI>://WOS:000623569100012. doi:10.1016/j.eswa.2020.114482
- 14 Khosravi, K., Bordbar, M., Paryani, S., Saco, P. M., & Kazakis, N. (2021). New hybrid-based approach for improving the accuracy of coastal aquifer vulnerability assessment maps. Science of the Total Environment, 767. Retrieved from <Go to ISI>://WOS:000617681100100. doi:10.1016/j.scitotenv.2021.145416
- 15 Le Guisquet, S., & Amabili, M. (2021). Identification by means of a genetic algorithm of nonlinear damping and stiffness of continuous structures subjected to large-amplitude vibrations. Part I: single-degree-of-freedom responses. Mechanical Systems and Signal Processing, 153. Retrieved from <Go to ISI>://WOS:000613521500011. doi:10.1016/j.ymssp.2020.107470
- 16 Li, W., & Qian, J. (2021). SIMULTANEOUSLY RECOVERING BOTH DOMAIN AND VARYING DENSITY IN INVERSE GRAVIMETRY BY EFFICIENT LEVEL-SET METHODS. Inverse Problems and Imaging, 15(3), 387-413. Retrieved from <Go to ISI>://WOS:000628997400001. doi:10.3934/ipi.2020073
- 17 Wang, Y., & Han, L. (2021). Adaptive time series prediction and recommendation. Information Processing & Management, 58(3). Retrieved from <Go to ISI>://WOS:000633035800001. doi:10.1016/j.ipm.2021.102494
- 18 Xie, Y., Qiao, J., Wang, D., & Yin, B. (2021). A novel decomposition-based multiobjective evolutionary algorithm using improved multiple adaptive dynamic selection strategies. Information Sciences, 556, 472-494. Retrieved from <Go to ISI>://WOS:000626586900025. doi:10.1016/j.ins.2020.08.070
- 19 Xu, Y., Yang, X., Yang, Z., Li, X., Wang, P., Ding, R., & Liu, W.

(2021). An enhanced differential evolution algorithm with a new oppositional-mutual learning strategy. *Neurocomputing*, 435, 162-175. Retrieved from <Go to ISI>://WOS:000632819000013. doi:10.1016/j.neucom.2021.01.003

20 Yao, L., & Ge, Z. (2021). Cooperative Deep Dynamic Feature Extraction and Variable Time-Delay Estimation for Industrial Quality Prediction. *Ieee Transactions on Industrial Informatics*, 17(6), 3782-3792. Retrieved from <Go to ISI>://WOS:000626556300007. doi:10.1109/tii.2020.3021047

中文文献:

- 01 [1] 韩宝明, 赵鹏, 李得伟. 动车所一级修灵活作业顺序模型与算法[J]. 北京交通大学学报, 2021, 45(1): 8-15.
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