



# 《信息检索》

## 期末大作业报告

题 目： 信息检索期末大作业

学生姓名： Steven

学 号： \_\_\_\_\_

专 业： 智能科学与技术

任课教师： \_\_\_\_\_

评分（百分制）： \_\_\_\_\_

2023 年 1 月

## 一、 科研训练方向

## 二、 相关专利成果检索

使用中国知网进行检索，检索主题为“深度学习 AND 图像增强”，  
检索结果如下，共找到 253 条相关结果。

The screenshot shows a search interface for CNKI (中国知网). The search bar at the top contains the query: 检索范围: 专利 (主题: 深度学习 (精确)) AND (主题: 图像增强 (精确)) . The results page displays 253 items. The left sidebar shows the search history and a list of main topics under '主题' (including '深度学习(205)', '图像增强(71)', etc.). The right side lists 10 specific patent entries, each with details like title, inventor, applicant, publication date, and download links.

序号	专利名称	发明人	申请人	数据库	申请日	公开日	操作
1	使用一个或更多个神经网络进行图像增强	R·波托夫;D·塔维安;A·海;B·卡坦扎罗	辉达公司	中国专利	2021-09-02	2022-12-06	
2	基于深度学习的锂电池模组侧面焊缝外观检测方法及系统	林福明;吴文鑫	厦门微亚智能科技有限公司	中国专利	2021-10-08	2022-11-29	
3	一种基于深度学习的车道线检测方法	郭心锐;黄诗婧;韩莹宇;范自柱	华东交通大学	中国专利	2022-08-30	2022-11-22	
4	基于深度学习的极目目标识别方法及系统	刘广秀;王万国;许伟;曹世友;周大洲;李建祥;王振科;刘丕玉;宋旭;刘斌;曾亚军;李勇;郭锐;赵金龙;李振宇;许幸洁	国网智能科技股份有限公司	中国专利	2019-09-19	2022-11-15	
5	基于深度辅助学习的图像增强及盲图质量评价网络系统	吴庆波;乌瑞;王雷;李海;魏浩冉;吴晨豪	电子科技大学	中国专利	2019-04-15	2022-11-08	
6	一种基于深度学习的铸件表面缺陷检测方法	贾佳	南京耘瞳科技有限公司	中国专利	2022-08-11	2022-11-04	
7	基于物理和深度学习双重引导的水下图像增强网络及方法	曾立新;欧阳婷;张永军;张雪莺;吴玲	贵州杰源水务管理技术有限公司;贵州大学	中国专利	2022-07-25	2022-11-01	
8	一种图像增强训练方法及其系统、计算机可读存储介质	张云鹏;饶竹一	深圳供电局有限公司	中国专利	2019-10-10	2022-10-14	
9	一种低光照图像增强方法、系统及可读存储介质	罗玉琼;吴佳;凌捷;柳毅	广东工业大学	中国专利	2022-06-30	2022-10-11	
10	基于深度学习的烟雾检测方法、装置、设备及存储介质	朱映映;赵俊琪	深圳大学	中国专利	2022-07-28	2022-10-04	

(专利检索结果)

选择查看的专利为《基于深度辅助学习的图像增强及盲图质量评价网络系统》，扉页内容如下。

(19) 国家知识产权局



(12) 发明专利



(10) 授权公告号 CN 110111288 B

(45) 授权公告日 2022.11.08

(21) 申请号 201910299604.3

(22) 申请日 2019.04.15

(65) 同一申请的已公布的文献号  
申请公布号 CN 110111288 A

(43) 申请公布日 2019.08.09

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51203  
专利代理人 邹裕蓉

(51) Int.Cl.

G06T 5/50 (2006.01)

G06T 5/00 (2006.01)

G06T 7/00 (2017.01)

G06N 3/04 (2006.01)

(56) 对比文件

CN 109360156 A, 2019.02.19

CN 109064422 A, 2018.12.21

CN 108648188 A, 2018.10.12

CA 2850933 A1, 2013.04.18

US 2003142865 A1, 2003.07.31

张云飞. 基于生成对抗网络的模糊图像复原  
研究.《中国优秀硕士学位论文全文数据库信息  
科技辑》.2019,(第(2019)02期),1138-1313.

谢志峰 等. 基于生成对抗网络的HDR图像风  
格迁移技术.《上海大学学报(自然科学版)》  
.2018,第24卷(第4期),

Wei Hua 等.Low-Light Image

Enhancement Based on Joint Generative  
Adversarial Network and Image Quality

Assessment.《2018 11th International  
Congress on Image and Signal Processing,  
BioMedical Engineering and Informatics  
(CISP-BMEI)》.2019,

审查员 黄娟

权利要求书1页 说明书4页 附图1页

(所查看专利的扉页截图)

### 三、中国数据库相关文章检索

#### 1. 万方学术期刊检索相关文章

(1) 进入万方数据知识服务平台 (<https://c.wanfangdata.com.cn/>)

(2) 使用高级检索, 检索内容为“深度学习 AND 图像增强”

The screenshot shows the Wanfang Data Knowledge Service Platform's advanced search interface. The search terms "深度学习" and "图像增强" are entered in the main search input field. The search results page is visible below the search bar.

(万方数据知识服务平台 高级检索)

(3) 检索结果如下图所示

(万方 检索结果)

## 2. CNKI 中国学术期刊网检索相关文章

(1) 进入中国知网 (<https://www.cnki.net/>)

(2) 使用高级检索, 检索内容为“深度学习 AND 图像增强”

(中国知网 高级检索)

(3) 检索结果如下图所示

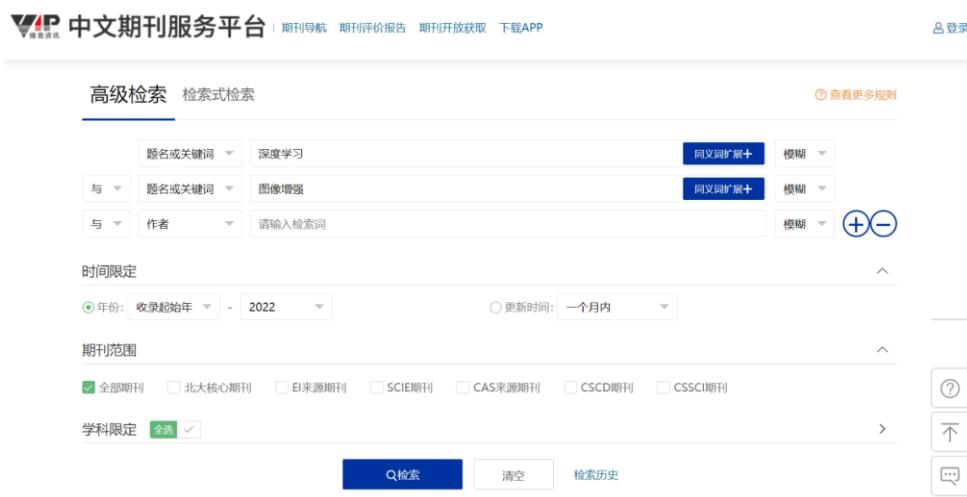
序号	题名	作者	来源	发表时间	数据库	被引	下载	操作
1	软包装锂离子电池的表面凸点缺陷检测	曾瑞; 王宏博; 王正家; 何涛	电池	2022-12-22 15:05	期刊	3	3	
2	基于改进YOLOv3的接触网设备目标检测方法	令晓明; 顾7婉; 范少向; 王文强	软件导刊	2022-12-20 09:54	期刊	7	7	
3	基于深度学习的螺旋选矿机矿物分带图像特征信息提取方法研究	刘惠中; 宁剑; 邹起华; 闻成珏	有色金属工程	2022-12-20	期刊	3	3	
4	基于Retinex-Net改进的室外场景低照度图像增强算法	鲁鑫鑫; 余荣芳; 刘宇红; 李微; 韩云杰	微处理机	2022-12-15	期刊	3	3	
5	不均匀低照度低照度图像增强算法研究	武亚红	南京邮电大学	2022-12-05	博士	33	33	
6	基于融合与引导图重建的微光图像去噪方法	刘亮振	南京邮电大学	2022-12-05	硕士	1	1	

(中国知网 检索结果)

### 3. 维普中文期刊数据库检索相关文章

(1) 进入维普期刊官网 (<https://qikan.cqvip.com/>)

(2) 使用高级检索，检索内容为“深度学习 AND 图像增强”



VIP 中文期刊服务平台 | 期刊导航 期刊评价报告 期刊开放获取 下载APP

登录

高级检索 检索式检索

① 查看更多规则

时间限定

更新时间：一个月内

期刊范围

学科限定 全选

Q 检索 清空 检索历史

(维普 高级检索)

(3) 检索结果如下图所示



题名或关键词=深度学习 A... x

共找到120篇文章 每页显示 20 50 100 1 2 ... 6 >

已选0条

融合深度学习与成像模型的水下图像增强算法

作者：陈学磊, 张品, +2位作者 庞晓联 • 《计算机工程》 CAS CSCD 北大核心 • 2022年第2期243-249,共7页  
水下机器人的视觉感知功能因受到水下环境因素的影响,面临着图像质量降低的挑战。如图像颜色畸变、整体色调偏绿、偏蓝、对比度较低、细节较为模糊等。提出一种结合深度学习方法与物理成像模型的新型水下图像增强算法,通过构建包围扩张... 展开更多

关键词：深度学习 成像模型 图像增强 水下机器人 视觉感知

在线阅读 下载PDF

基于深度学习的低照度图像增强

作者：仇瑞阳, 吴章铭, 王宇辰 • 《电脑知识与技术·学术版》 • 2022年第7期76-77,共3页  
该文以深度学习为基础,以增强低照度图像为背景,对图像处理技术展开了研究。在对已有的比较流行的增强技术的研究基础上,对一些步骤进行改善,提出了改进的RetinexNet算法。传统的Retinex算法在处理单张图像时比较好用,但是运算速度比较... 展开更多

关键词：低照度图像 图像增强 RetinexNet改进算法

在线阅读 下载PDF

(维普 检索结果)

## 四、 英文数据库相关期刊检索

### 1. IEEE Xplore 检索相关期刊

- (1) 进入 IEEE Xplore 官网 (<https://ieeexplore.ieee.org/>)
- (2) 使用高级检索，检索内容为“Deep Learning AND Image Enhancement”

Advanced Search 

Advanced Search    Command Search    Citation Search

Enter keywords and select fields.

Search Term: Deep Learning    in: All Metadata

AND    Search Term: Image Enhancement    in: All Metadata

From: 1884    To: 2023

Reset All    Search

Preferences

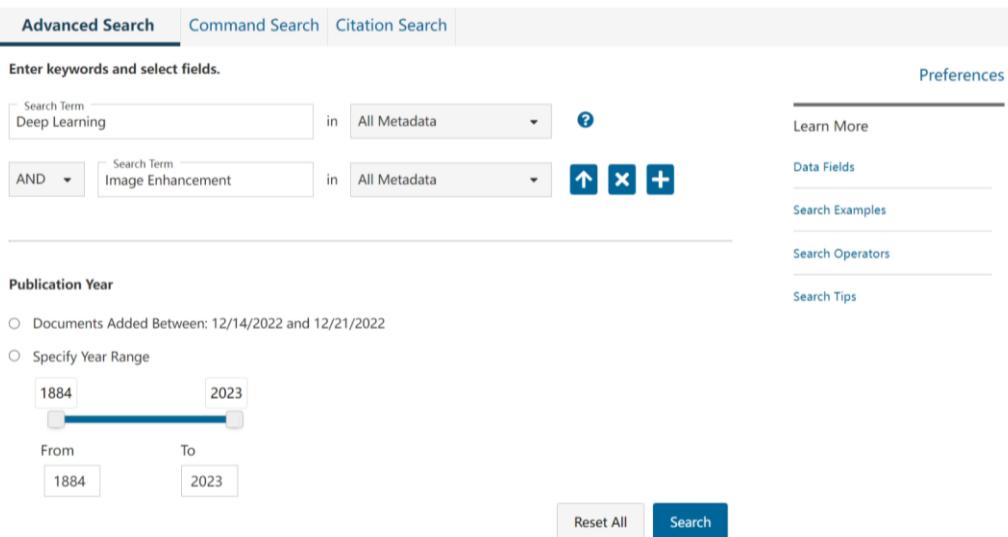
Learn More

Data Fields

Search Examples

Search Operators

Search Tips



(IEEE Xplore 高级检索)

- (3) 检索结果如下图所示

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All    ADVANCED SEARCH

Search within results    Per Page: 25 ▾    Export ▾    Set Search Alerts    Search History

Showing 1-25 of 832 results for ("All Metadata":Deep Learning) AND ("All Metadata":Image Enhancement) ×

Filters Applied: Journals ×

Conferences (1,637)    Early Access Articles (50)    Magazines (11)    Books (4)

Show: All Results    Open Access Only

Year: Single Year    Range    2007 - 2023    From: 2007    To: 2023

Author

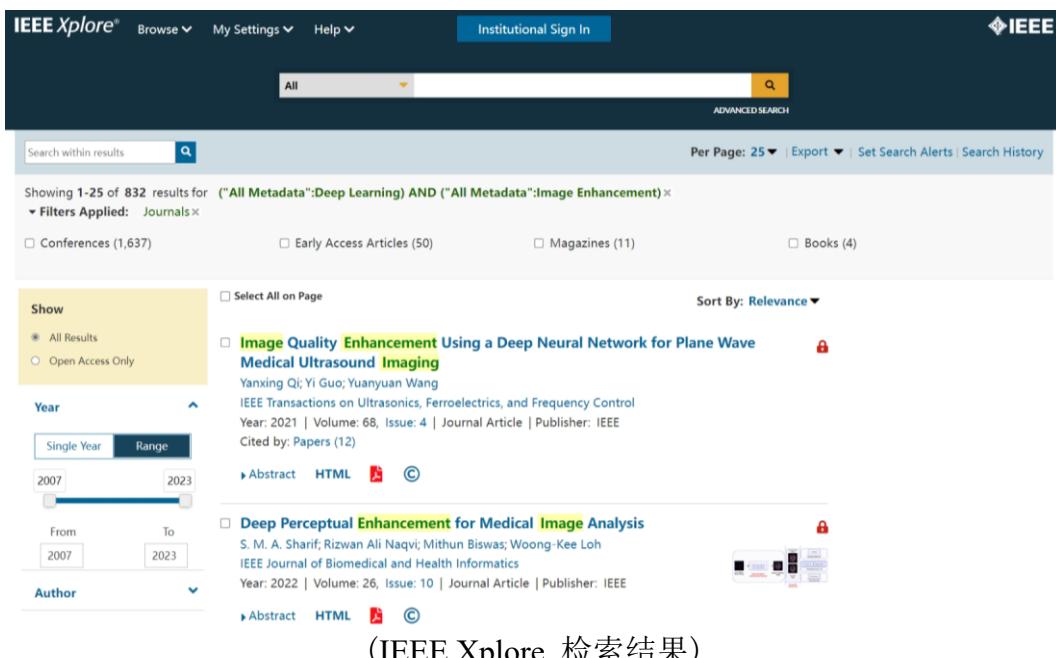
Sort By: Relevance ▾

Select All on Page

**Image Quality Enhancement Using a Deep Neural Network for Plane Wave Medical Ultrasound Imaging**  
Yanxing Qi; Yi Guo; Yuanyuan Wang  
IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control  
Year: 2021 | Volume: 68, Issue: 4 | Journal Article | Publisher: IEEE  
Cited by: Papers (12)  
Abstract    HTML        

**Deep Perceptual Enhancement for Medical Image Analysis**  
S. M. A. Sharif; Rizwan Ali Naqvi; Mithun Biswas; Woong-Kee Loh  
IEEE Journal of Biomedical and Health Informatics  
Year: 2022 | Volume: 26, Issue: 10 | Journal Article | Publisher: IEEE  
Abstract    HTML        

(IEEE Xplore 检索结果)



#### (4) 选择第一篇查看其发表期刊，并查看该刊最近的影响因子

Journals & Magazines > IEEE Transactions on Ultrason... > Volume: 68 Issue: 4 [View Article](#)

### Image Quality Enhancement Using a Deep Neural Network for Plane Wave Medical Ultrasound Imaging

Publisher: IEEE [Cite This](#) [PDF](#)

Yanxing Qi ; Yi Guo ; Yuanyuan Wang All Authors

12 Paper Citations 1750 Full Text Views

**Abstract:** Plane wave imaging (PWI), a typical ultrafast medical ultrasound imaging mode, adopts single plane wave emission without focusing to achieve a high frame rate. However, the imaging quality is severely degraded in comparison with the commonly used focused line scan mode. Conventional adaptive beamformers can improve imaging quality at the cost of additional computation. In this article, we propose to use a deep neural network (DNN) to enhance the performance of PWI while maintaining a high frame rate. In particular, the PWI response from a single point target is used as the network input, while the focused scan response from the same point serves as the desired output, which is the main contribution of this method. To evaluate the performance of the proposed method, simulations, phantom experiments and *in vivo* studies are conducted. The delay-and-sum (DAS), the coherence factor (CF), a previously proposed deep learning-based method and the DAS with focused scan are used for comparison. Numerical metrics, including the contrast ratio (CR), the contrast-to-noise ratio (CNR), and the speckle signal-to-noise ratio (sSNR), are used to quantify the performance. The results indicate that the proposed method can achieve superior resolution and contrast performance. Specifically, the proposed method performs better than the DAS in all metrics. Although the CF provides a higher CR, its CNR and sSNR are much lower than those of the proposed method. The overall performance is also better than that of the previous deep learning method and at the same level with focused scan performance. Additionally, in comparison with the DAS, the proposed method requires little additional computation, which ensures high temporal resolution. These results validate that the proposed method can achieve a high imaging quality while maintaining the high frame rate associated with PWI.

**Document Sections:**

- I. Introduction
- II. Background
- III. Methods
- IV. Experiments and Results
- V. Discussion

Show Full Outline ▾

**Authors:**

**Figures:**

**References:**

**Citations:**

**Keywords:**

**Metrics:** Published in: IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (Volume: 68, Issue: 4, April 2021)

Back to Results | Next >

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Beamforming and Speckle Reduction Using Neural Networks  
IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control  
Published: 2019

Preserving speckle statistics in minimum-variance beamformed images: the effectiveness of spatial compounding  
2009 IEEE International Ultrasonics Symposium  
Published: 2009

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(该刊的影响因子为 3.267)

## 2. Elsevier 检索相关期刊

(1) 进入 ScienceDirect 官网 ([www.sciencedirect.com](http://www.sciencedirect.com))

(2) 使用高级检索，检索内容为 ““deep learning” AND “image enhancement””

Find articles with these terms

[Advanced search](#)

## (ScienceDirect 高级检索)

## (3) 检索结果如下图所示

1,271 results

sorted by relevance | date

## Refine by:

## Years

- 2023 (92)
- 2022 (447)
- 2021 (305)

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## Article type

- Review articles (94)
- Research articles (1,074)
- Book chapters (34)
- Editorials (9)

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## Publication title

- Neurocomputing (139)
- Computers in Biology and Medicine (91)
- Biomedical Signal Processing and Control (91)

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## Research article

Comparing deep learning models for low-light natural scene image enhancement and their impact on object detection and classification: Overview, empirical evaluation, and challenges

Signal Processing: Image Communication, 28 August 2022, ...

Rayan Al Sobbah, Joe Tekli

## Research article

A deep learning based image enhancement approach for autonomous driving at night

Knowledge-Based Systems, 16 November 2020, ...

Guofa Li, Yifan Yang, ... Keqiang Li

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## (ScienceDirect 检索结果)

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Signal Processing: Image Communication  
Volume 109, November 2022, 116848



Comparing deep learning models for low-light natural scene image enhancement and their impact on object detection and classification: Overview, empirical evaluation, and challenges

Rayan Al Sobbah, Joe Tekli

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(该文章发表在 Signal Processing: Image Communication 上)

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**Volume 111**

In progress

February 2023

### About the journal

Theory, Techniques & Applications

A publication of the European Association for Signal Processing (EURASIP)

*Signal Processing: Image Communication* is an international journal for the development of the theory and practice of image communication. Its primary objectives are the following:

(该刊的影响因子为 3.453)

### 3. Springer 检索相关期刊

(1) 进入 Springer 官网 (<https://link.springer.com/>)

(2) 使用高级检索，检索内容为 ““deep learning” AND “image enhancement””

Springer Link

"deep learning" AND "image enhancement" New Search

(Springer 高级检索)

(3) 检索结果如下图所示

1,651 Result(s) for "deep learning" AND "image enhancement"

Sort By: Relevance, Newest First, Oldest First, Date Published

Your search also matched 2,275 preview-only results, e.g.  
Second International Conference on Image Processing and Capsule Networks  
» Include preview-only content

Article: Deep learning-based time-of-flight (ToF) image enhancement of non-ToF PET scans  
Open Access

To improve the quantitative accuracy and diagnostic confidence of PET images reconstructed without time-of-flight (ToF) using deep learning models trained for ToF image enhancement (DL-ToF).  
Abolfazl Mehranian, Scott D. Wollenweber... in *European Journal of Nuclear Medicine and M...* (2022)  
» Download PDF (1816 KB) » View Article

Article: Image enhancement techniques on deep learning approaches for automated diagnosis of COVID-19 features using CXR images  
The outbreak of novel coronavirus (COVID-19) disease has infected more than 135.6 million people globally.  
For its early diagnosis, researchers consider chest X-ray examinations as a standard screening techniq...  
Ajay Sharma, Pramod Kumar Mishra in *Multimedia Tools and Applications* (2022)

(Springer 检索结果)

#### (4) 选择任一篇查看其发表期刊，并查看该刊最近的影响因子

The screenshot shows two parts of a SpringerLink interface. On the left, a specific article is displayed: "Enhancing of dataset using DeepDream, fuzzy color image enhancement and hypercolumn techniques to detection of the Alzheimer's disease stages by deep learning model" by Mesut Toğacar, Zafer Comert, and Burhan Ergen. The article was published in *Neural Computing and Applications* 33, 9877–9889 (2021). It has 1065 accesses, 8 citations, and 1 Altmetric score. The right side shows the journal homepage for *Neural Computing and Applications*. It features a navigation bar with "Search" and "Log in". Below the search bar is a "Download PDF" button. A sidebar on the right is titled "Working on a manuscript?" with a link to learn more. The main content area includes tabs for "Abstract", "Introduction", "Materials and methods", "Results", "Discussion and conclusion", and "References". The journal's logo and name are at the top. Below the logo, there are links for "Editorial board", "Aims & scope", and "Journal updates". A message indicates "You have access to our articles". The "For authors" section includes links for "Submission guidelines", "Manuscript editing services", "Ethics & disclosures", "Open Access fees and funding", "Contact the journal", and a prominent "Submit manuscript" button. At the bottom, there is another "Working on a manuscript?" sidebar.

(该刊的影响因子为 5.102)

#### 4. Wiley 检索相关期刊

(1) 进入 Wiley 官网 (<https://onlinelibrary.wiley.com>)

(2) 使用高级检索，检索内容为“Deep Learning AND Image Enhancement”



### Advanced search

Context

Anywhere ▾

Term

Deep Learning



Anywhere ▾

Image Enhancement



Published in

Enter a journal, book, or reference work title

(Wiley 高级检索)

### (3) 检索结果如下图所示

67,668 results for "Deep Learning" anywhere and "Image Enhancement" anywhere

[★ SAVE SEARCH](#) | [RSS](#)

**Articles & Chapters (67,668)**

[Applied Filters](#) [Clear all X](#)

[Refine Search ▾](#) [Sorted by: Relevance ▾](#)

[Export Citation\(s\)](#) [Download PDF\(s\)](#)

**Filters**

**Publication Date ▾**

<input type="radio"/> Last Week	162
<input type="radio"/> Last Month	652
<input type="radio"/> Last 3 Months	1,861
<input type="radio"/> Last 6 Months	3,536
<input type="radio"/> Last 2 Years	12,390

[MORE \(2\) ▾](#)

**ORIGINAL RESEARCH** [Open Access](#)

**Integrating deep learning and traditional image enhancement techniques for underwater image enhancement**

Zhenghao Shi, Yongli Wang, Zhaorun Zhou, Wenqi Ren

IET Image Processing | Volume 16, Issue 13

First published: 14 July 2022

[Abstract ▾](#)

(Wiley 检索结果)

### (4) 选择任一篇查看其发表期刊，并查看该刊最近的影响因子

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**IET Image Processing**

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**ORIGINAL RESEARCH** [Open Access](#)

**Integrating deep learning and traditional image enhancement techniques for underwater image enhancement**

Zhenghao Shi, Yongli Wang, Zhaorun Zhou, Wenqi Ren

First published: 14 July 2022 | <https://doi.org/10.1049/ipt2.12544>

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**Abstract**

Underwater images usually suffer from colour distortion, blur, and low contrast, which

**Details**

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(该文章发表在 IET Image Processing 上)



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1. arXiv:2212.08983 [pdf, other] cs.CV

Adaptive Uncertainty Distribution in Deep Learning for Unsupervised Underwater Image Enhancement

Authors: Alzayat Saleh, Marcus Sheaves, Dean Jerry, Mostafa Rahimi Azghadi

Abstract: One of the main challenges in deep learning-based underwater image enhancement is the limited availability of high-quality training data. Underwater images are difficult to capture and are often of poor quality due to the distortion and loss of colour and contrast in water. This makes it difficult to train supervised deep learning models on large and diverse datasets, which

(arXiv 检索结果)

The screenshot shows a detailed view of an arXiv article. At the top, there's a red header bar with the arXiv logo and navigation links. Below it, the main content area has a white background. The article title is "Adaptive Uncertainty Distribution in Deep Learning for Unsupervised Underwater Image Enhancement". The authors listed are Alzayat Saleh, Marcus Sheaves, Dean Jerry, and Mostafa Rahimi Azghadi. A short abstract follows, detailing the challenges of underwater image enhancement and the proposed framework involving a U-Net and a PAdalN module. To the right of the main content, there are two vertical sidebars. The left sidebar contains download links (PDF, Other formats, BibTeX), a current browse context (cs.CV), and a reference section with links to NASA ADS, Google Scholar, and Semantic Scholar. The right sidebar also lists download options and provides links to export the citation and bookmark the page.

(最新的文章是该篇 Adaptive Uncertainty Distribution in Deep Learning for Unsupervised Underwater Image Enhancement)

## 六、二次文献（三大检索）工具的作用和异同。

SCI(科学引文索引)、EI(工程索引)、ISTP(科技会议录索引) 是国际知名的三大科技文献检索系统，是进行科学统计与科学评价的主要检索工具。

SCI (Science Citation Index) 即科学引文索引，是国际三大检索系统中最重要的一种。其于 1961 年由美国科学信息研究所(ISI)创办，覆盖生命科学、临床医学、物理化学、农业、生物、兽医学、工程技术等方面，是理工科期刊的引文关系数据库。

EI (Engineering Index) 即工程索引，是 1884 年由美国工程信息公司 (Engineering Information Inc.) 出版的工程技术领域最权威的检索工具。收录文献内容几乎涉及工程技术各个领域，如：生物工程、土木、环境、矿冶、机械、燃料工程、电气、电子、控制工程、水利等。EI 同时收录来自期刊和会议的论文。EI 的两种检索方式：期刊论文为 EI(JA) ，会议论文为 EI(CA)。此外 EI 没有自己的影响因子。

ISTP (Index to Scientific & Technical Proceedings) 即科技会议录索

引，是 1978 年由美国科学信息研究所( ISI )创办的另一大信息检索工具，主要收集世界上各种重要的会议文献。其涉及生命科学、物理、化学、农业、环境科学、临床医学、工程技术和应用科学等多学科领域，是学科覆盖最广泛、内容涵盖最全面的学术会议数据库。

这三者之中， SCI 涵盖学科最广，对于论文的审核要求最高，通常认为其论文的质量也是最高的。 EI 和 ISTP 相比之下审核要宽松一些，且都以工程领域为主。但二者的侧重并不完全相同，从事工程领域研究的学者更倾向 EI ，而从事人文社科领域的学者更倾向于 ISTP 。