

Preprint Platform for Sino-Russian International Cooperation

User Manual

June 2024

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1 Introduction

1.1 Purpose of Writing

This manual is intended to guide users in utilizing the various functions of the “Preprint Platform for Sino-Russian International Cooperation” (hereinafter referred to as “the Platform”), which effectively providing preprint deposit and open archiving services for scientific papers in Chinese, English, and Russian.

1.2 Definitions

This section lists the definitions of the specialized terms used in this manual and the original phrases for the acronyms.

“Users” refer to individuals who utilize the preprint platform, including readers, researchers from various institutes, and other members of society.

2 Usage

2.1 Features

The "Preprint Platform for Sino-Russian International Cooperation" is open access to global researchers, offering multiple functions including submission, retrieval, browsing, personalized customization, and downloading of scientific preprints in Chinese, English, and Russian. It aims to build a standardized and rapid academic exchange ecosystem, promoting Sino-Russian academic exchanges, assisting journals in obtaining high-quality manuscripts promptly, enhancing journal impact, supporting the rapid pre-publication of high-level scientific papers, and effectively supporting the initial publication rights of researchers.

2.2 Security and Confidentiality

The platform is committed to protecting the security of users’ personal information. The private information is owned by the user, and all operations cannot be browsed or modified by other individual users.

3 Instructions for Use

3.1 Overview of Features

The platform offers the following services:

1. Paper Submission: Provides online and batch submission methods for papers.
2. Paper Browsing and Search: Supports browsing papers by submission time, field, author, institution, and multi-field combination search options such as title, author, and abstract.
3. My Center: Offers services such as My Submissions, My Papers, My Comments, My Browse History, My Downloads, and My Customizations.
4. Paper Comments: Provides anonymous and real-name comment options for papers.

For specific features, please refer to the module introductions.

3.2 Platform Functionality Diagram

The overall design of ChinaXiv (Chinese Academy of Sciences Preprint Platform) is shown in Figure 1, and it includes:

- A complete pre-publication paper submission process, supporting batch submissions by authors and institutions, with standardized format and redundancy checks for submitted resources.
- Establishment of a quality management mechanism, including a “recognition mechanism” to ensure standardized papers and maintain high academic standards.
- Implementation of an online paper review process with automatic classification for paper deposit.
- Creation of a thematic repository to centrally save scientific papers and automatically generate thematic libraries for various fields, providing data support for the platform’s services.
- Enhanced resource permission management through authentication, permission, download, and copyright management to promote efficient use of information resources.
- Implementation of search, browse, and alert services to provide readers with rich

resource discovery services.

- Formation of an Oauth Science Network unified authentication service application service.
- Establishment of an academic exchange mechanism for managing and reviewing comments on published papers.
- Organization of cooperative journal data resources, using multiple approaches to improve journal resources and integrate journal papers.

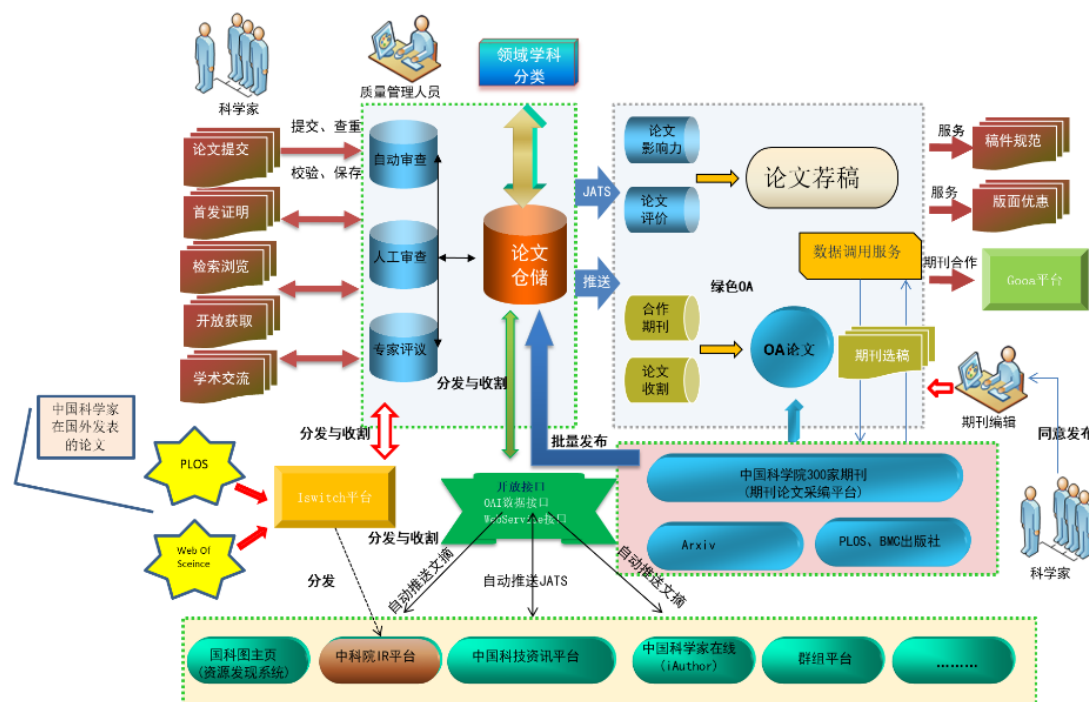


Figure 1 The overall design of ChinaXiv (Chinese Academy of Sciences Preprint Platform)

3.3 Platform Layout and Home Page Introduction

The platform layout is shown in Figure 2. Users can switch between different languages at the top right corner. The home page includes commonly used functions, displays the latest activities, recently submitted papers, hot discussions, and popular paper rankings, and also provides links to related platforms.



Figure 2 Homepage of the Platform

The platform menu bar includes Home, Paper Submission, Paper Browse, Paper Search, My Center, and Help. Users can quickly access each functional module by clicking on the menu. At the top right corner is the user login entrance, which redirects to the unified authentication service after clicking. A quick search box is also provided, as shown in Figure 3.



Figure 3 Menu Bar

3.4 Account Registration

Visit the platform address: <http://smbu.chinaxiv.org/>, click on Register at the top right corner, and you will be redirected to the interface shown in Figure 4. Users can register an account according to the prompts.

1. The platform only supports registration and login with **institutional email addresses** (i.e. with suffixes “**edu.cn**” or “**ac.cn**”) for online paper submission.

2. For E-mails with the suffix “**edu.cn**”, registration and login are required for submission; for E-mails from the Chinese Academy of Sciences, direct login is available without registration.

3. For paper submission with personal E-mails, please contact the administrator in advance for certification. Contact information:

Miss Luo: WeCom(*WeChat at Work*)- Contacts- Library (Option for Shenzhen MSU-BIT University Users); E-mail: luo_xy@smbu.edu.cn.

ChinaXiv: eprint@mail.las.ac.cn.

Figure 4 Register an account

3.5 Login Authentication

Visit the platform address: <http://smbu.chinaxiv.org/>, click on Login at the top right corner, and you will see the login interface shown in Figure 5. Log in to the platform with the registered account and password.

Figure 5 Login Authentication

3.6 Paper Submission

3.6.1 Single Paper Online Submission

Providing online submission services for readers is an essential part of the platform.

The “Single Paper Online Submission” process includes six steps:

- Confirmation of Personal Information and Paper Authorization Agreement
- Commitment to Integrity by the Paper Submitter
- Uploading the Paper and Proof of Identity
- Format Verification
- Paper Description Information
- Preview and Submission

3.6.1.1 Confirmation of Personal Information and Paper Authorization Agreement

Click “Submit Paper” to enter Step 1 of the single paper online submission process, confirm personal information and paper authorization agreement, as shown in Figure 6.

(1) Confirm Personal Information: The system automatically retrieves the user’s name, institution, address, and ORCID (if registered or associated with an E-mail and ORCID in iAuthor) based on the user’s E-mail. Users can modify this information and click “Maintain Personal Information”. If the information is confirmed, check the box “Confirm that the information is true and valid!”.

(2) Copyright Commitment: Select the appropriate option according to your personal situation.

(3) License Statement: Select the appropriate option according to your personal situation.

(4) Policy Statement: Please read carefully and check the box “I agree to the statements above”.

(5) Click “Next Step”.

The screenshot shows the 'Confirm User Information' step of a submission process. At the top is a navigation bar with links: Home, Submit, Browse, Search, MyCenter, and About. Below this is a progress bar with steps: 1. Confirm User Information (active), 2. Promise, 3. Upload File, 4. Format Checks, 5. Description Info, and 6. Preview. The main content area is titled 'Step 1: read the following license agreement' and 'Please certify user information'. It contains a form with fields for *Name, *Email (pre-filled with 'luo_xy@smbu.edu.cn'), *Address, *Institution, and ORCID. There is a 'User Information' section with radio buttons for 'Chinese' and 'English' (selected). A note states: 'We must have current contact information, especially your email address. Verify your name and institutional affiliation. Return to the registration form to update your information, your e-mail address is your user name, once registration is successful, no modifications will be allowed.' A link for 'Thesis template&Downloads' is also present. Below the form is a 'Copyright Pledge' section with four radio button options. The last option is selected: 'Submitted as the author of this article, and promised to have the right to upload this article.' The 'License Information' section is partially visible at the bottom.

Figure 6 Confirm Personal Information and Paper Authorization Agreement

3.6.1.2 Commitment to Integrity by the Paper Submitter

Step 2 of the single paper online submission process involves the submitter's commitment to integrity, as shown in Figure 7.

Submitter's Commitment to Integrity (Note: Attention should be paid to avoid conflicts between the platform and the agreements of other journals. Any responsibility arising therefrom should be borne by the submitter, which has nothing to do with the platform).

Users can inquire about the preprint policies of major international publishers and over 50,000 journals through the International Journal Preprint Policy (<https://www.chinaxiv.org/yuyinben.htm>); corresponding preprint policies can also be inquired on the official websites of the journals.

Home	Submit	Browse	Search	MyCenter	About
------	--------	--------	--------	----------	-------

Confirm User Information»
2. Promise »
3. Upload File »
4. Format Checks »
5. Description Info »
6. Preview »

Step2:submitter commitment(Attention should be paid to avoid conflicts between the platform and the agreements of other journals. Any responsibility arising therefrom should be borne by the submitter, which has nothing to do with the platform)

ChinaXiv Paper Submitter Integrity Commitment

Basic Guidelines for ChinaXiv Paper Submitters and Reviewers

Chapter 1 General Provisions

1 In order to maintain a good academic atmosphere, protect the intellectual property rights of authors, strengthen academic supervision, and promote academic exchanges, in accordance with the "Copyright Law of the People's Republic of China", "Patent Law of the People's Republic of China", "State Secrecy Law of the People's Republic of China", "Internet Security Law of the People's Republic of China", "Regulations on the Protection of the Right to Disseminate Information Networks", "Regulations on the Protection of Computer Software", "Regulations for the Implementation of the Copyright Law" and other relevant laws and regulations, formulate these guidelines.

2 These guidelines apply to paper submitters and paper reviewers who participate in and use the services provided by the Chinese Academy of Sciences' scientific paper pre-publishing platform (hereinafter referred to as ChinaXiv).

3 Users should adhere to the scientific spirit of seeking truth from facts and a serious scientific attitude, strictly abide by the academic ethics recognized at home and

☐ I have read the 《Basic Guidelines for ChinaXiv Paper Submitters and Paper Reviewers》, and solemnly promise to strictly abide by the national laws and regulations and the following guidelines. If there is any violation, I shall bear the corresponding legal responsibility and agree to the handling measures of ChinaXiv.

Next Return

Figure 7 Submit Integrity Commitment

3.6.1.3 Uploading the Paper and Proof of Identity

Step 3 of the single paper online submission process involves uploading the paper and proof of identity, as shown in Figure 8.

(1) Click "Browse" to select the file to be uploaded from the local computer. You can choose files in PDF, Word, WPS, or Latex formats.

(2) Click the "Upload" button, then it will display "Your most recently uploaded paper: filename".

(3) You are supposed to upload research identity verification materials (recommended). Submitting "researcher (author) identity verification materials" along with the paper manuscript helps the platform quickly identify your research identity and promptly disclose your submitted manuscript. Provide as much information as possible that can be found on official and third-party institutions, which helps prove that you are a rigorous scholar with a good academic reputation.

This can include the following aspects of content:

a) Your real name, contact number, brief educational background, and research

experience.

b) Information about the research institution where you are currently employed, including the institution, address, postal code, contact number, and official website.

c) The situation of your research work at the institution. Including the department you work in, the research you are engaged in, your email address at the institution, your work phone number, and the official website that can prove your employment.

d) A list of your published peer-reviewed journal papers, especially those related to the submitted manuscript.

e) Other relevant information in the academic community, including ORCID, ResearchGate, ScienceNet, and other relevant information in the academic community.

(4) It is optional for you to upload related audio and video files of the paper (in rar or zip compressed format), as well as figures, experimental data, and other files (in rar or zip compressed format).

(5) Click “Next Step”.

The screenshot displays the submission workflow with steps: 1. Confirm User Information, 2. Promise, 3. Upload File (active), 4. Format Checks, 5. Description Info, and 6. Preview. The 'Upload File' section includes a 'Paper format regulation' box listing acceptable formats: Adobe PDF, Office Word, WPS Office, and LaTeX (TEX, DVI, PS). It also contains a 'Note' about document format adherence and a warning about overwriting previous uploads. Below this is an 'Add files' section with a 'Preprint Type' dropdown menu set to 'Academic Papers', a 'Browse' button, and an 'Upload' button.

Home Submit Browse Search MyCenter About

Confirm User Information» 2. Promise » 3. Upload File » 4. Format Checks » 5. Description Info » 6. Preview »

step3:Your submission to the archive must be in one of the following formats (listed in order of preference):

Paper format regulation

- * Format1:Adobe PDF
- * Format2:Office Word
- * Format3:WPS Office
- * Format4:Latex(TEX, DVI and PS, Recommend DVI and PS)

Note:

(1)To ensure normal audits, Please you adhere to the above document format;

(2)New uploaded papers will automatically overwrite previous ones and we take the latest upload papers as the standard.

Add files

Preprint Type Academic Papers

* Browse Upload

Upload research identification materials

When submitting the manuscript, submitting the "Research Identification Materials of the Responsible Person (Thesis Author)" will help the platform to quickly identify your research identity and disclose your submitted manuscript in a timely manner. **Download.**


[Browse](#) [Upload](#)

Upload the relevant audio and video files of the paper(rar, zip)

[Browse](#) [Upload](#)

Upload files such as graphs, experimental data, etc.(rar, zip)

[Browse](#) [Upload](#)

 Science Data Bank
科学数据银行

[Next](#)

Figure 8 Uploading the Paper and Proof of Identity

3.6.1.4 Format Verification

Step 4 of the single paper online submission process involves format verification of the uploaded paper and proof of identity, as shown in Figure 9.

(1) The system will perform a format check on the uploaded paper: if there are any abnormalities, you will need to return and re-operate; otherwise, the system will display that the article verification is successful.

(2) You can also click "View PDF Full Text" to have the system automatically pop up the file for browsing.

(3) Click "Next Step".

Home **Submit** Browse Search MyCenter About

Confirm User Information >> 2. Promise >> 3. Upload File >> **4. Format Checks >>** 5. Description Info >> 6. Preview >>

Step3:Format check, check the format of the paper

Format check

[Click and Read the PDF](#)

The article is checked successfully. Please proceed to the next step;

Can be verified by third-party paper grammar detection tools: [火龙果写作 Third Party Tools \(Test\)](#)

Third party editing and polishing service tools: [Springer Nature 旗下专业编辑润色服务品牌](#) [AJE](#)

[Return](#) [Next](#)

Figure 9 Format Checks

Step 5 of the single paper online submission process involves filling in the paper description information, as shown in Figure 10.

- (1) Firstly, select the language (i.e. Chinese, English, or Russian) of the submitted paper.
- (2) Fill in the paper's descriptive information according to the prompts, including title, author(s), abstract, keywords, etc.
- (3) Select the classification of the paper.
- (4) After confirming the information, click "Next Step".

Confirm User Information»

2. Promise »

3. Upload File »

4. Format Checks »

5. Description Info »

6. Preview

Step4:Please fill in the paper's description information as requested.....

Paper description information

* Language:

English

Chinese

English

Russian

* English Title:

Author Info:

* English:

* Institution:

* Email:

luo_xy@smbu.edu

☐ Correspondent

Note: (1) For author of English paper, please follow "Lastname", "Firstname", For example "Wang, Haiying", "Gates, Bill".

(2) The authors added or deleted, please use the "+/-".

(3) Please select the corresponding organization serial number, multiple institutional numbers are separated by commas in English, e.g. "1,2".

1. *English:

Author institution:

(Add author organization, please click "+", Delete, please click "-")

I

x_o

x^a

B

μm

≠E

∴E

* English Abstract

* English keywords

Figure 10 Fill in the Paper Description Information

Step 6 of the single paper online submission process involves previewing and submitting the paper, as shown in Figure 11.

- (1) Review the paper information to confirm that it is correct; if there are any issues, click on the previous steps to review and modify.
- (2) When submitting a manuscript or an updated paper version, select the status associated with journal papers and conference papers, such as the status of the

manuscript submitted for review, etc.

(3) Users can fill in the corresponding links in the paper description, such as bioRxiv paper links, the DOI numbers of papers accepted by journals, etc.

Home	Submit	Browse	Search	MyCenter	About
Confirm User Information» 2. Promise » 3. Upload File » 4. Format Checks » 5. Description Info » 6. Preview »					
Paper info Preview (Remind: please click Submit for review at the bottom)					
ChinaXiv:	T202406.00566				
English Title:	Achieving superior electromagnetic wave absorbers with 2D/3D heterogeneous structures through the confinement effect of reduced graphene oxides				
Author:	Cheng, JY ¹ ;				
Unit:	1.Shenzhen MSU BIT Univ, Dept Mat Sci, Shenzhen 517182, Guangdong Provi, Peoples R China;				
English Abstract:	Currently, the development of low-thickness, high-efficiency electromagnetic wave (EMW) absorbing materials for practical applications is of particular importance. In this work, we used a simple one-step hydrothermal method to synthesize, for the first time, heterostructured materials with special multidimensional heterostructures by exploiting the confinement effect of graphene. In this work, a simple one-step hydrothermal method is employed to synthesize composites with a special heterogeneous structure through utilizing the confinement effect of graphene. NbS ₂ nanosheets are grown directionally along two-dimensional (2D) reduced graphene oxide (rGO) nanosheets and assembled into nanospheres on the nanosheets, resulting in a unique 2D/3D heterogeneous structure. This peculiar 2D/3D heterogeneous structure with intrinsic conductive network inside the rGO effectively enhances the EMW absorption performance of the heterostructure, with a minimum reflection loss (RL) value of -47.86 dB at 11.04 GHz at a thin thickness of 2.28 mm, and a minimum RL value of -38.64 dB at 15.28 GHz at a thinner thickness of 1.73 mm, and achieves a broadband effective absorption (RL < -10 dB) over 5 GHz, covering almost the whole Ku-band. The results reveal the influence of 2D/3D heterogeneous interfaces and the confinement effect of intrinsic conductive network on the improvement of EMW absorption performance, providing a new idea for the development of a new generation of ultrathin EMW absorption materials with high performance.				
English keywords:	Hybrids 2D/3d heterogeneous structure Electromagnetic wave absorption Confinement effect Keywords Plus MICROWAVE-ABSORPTION PROPERTIES HIGH-PERFORMANCE POROUS CARBON BAND NANOSHEETS NANOMATERIALS COMPOSITES				
Classification:	Materials Science » Materials Science (General);				
Full Text:	Browse				
The revision content when the submitted paper version is updated, the status associated with journal papers and conference papers, such as the status of the manuscript submitted for review, etc.					

Contribution:

description:

No Submitted
 Journal Submitted
 Journal Refused
 Accepted
 Under Review
 Published
 Meeting Submitted
 Meeting Refused
 Meeting To Presented
 Meeting To appear

[Submit](#)
[Save](#)
[Back to previous step](#)

Figure 11 Preview and Submission

3.6.2 One-Click Submission from arXiv

For papers already published on the arXiv platform, there is no need for re-submission. The platform supports one-click submission from arXiv, with metadata and full text directly connected. As shown in Figure 12, after logging in, click “My Center”

- “My Submissions” - “arXiv Submit” at the top right corner, and a window will pop-up. Fill in the corresponding arXiv number.

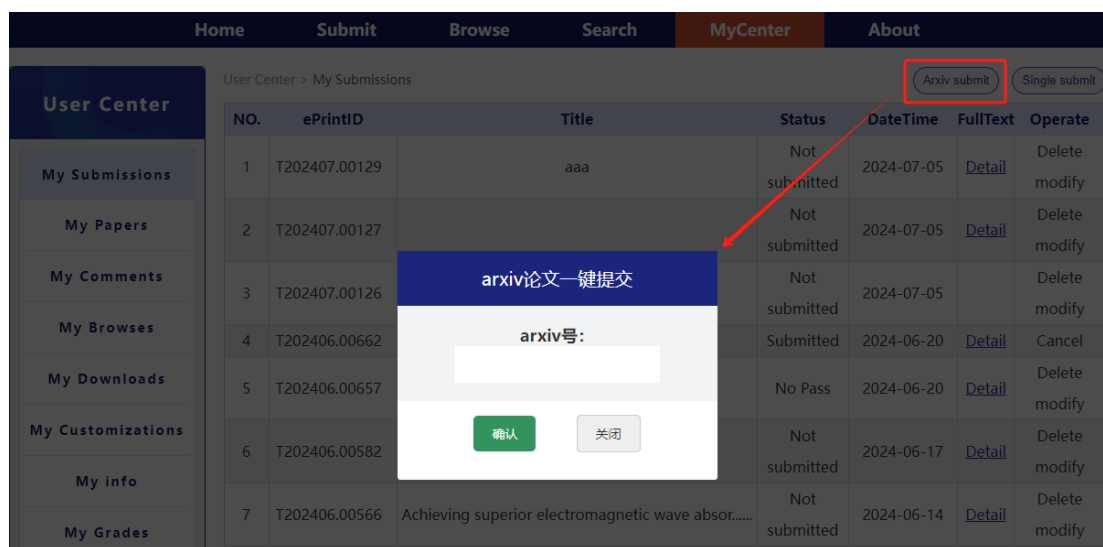


Figure 12 One-Click Submission from arXiv

Other preprint platforms (e.g. bioRxiv) have not yet implemented one-click submission data connection. Authors can fill in the article link in the “Paper Description” during the last step of the “Single Paper Online Submission” process.

3.7 Paper Modification and Withdrawal

(1) For papers submitted and awaiting review, as shown in Figure 13, in “My Center” - “My Submissions”, users can update, delete, or cancel the submission of papers in the management of current submission requests.

Home

Submit

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MyCenter

About

User Center

My Submissions

My Papers

My Comments

My Browsers

My Downloads

My Customizations

My info

My Grades

User Center > My Submissions

Arxiv submit

Single submit

NO.	ePrintID	Title	Status	DateTime	FullText	Operate
1	T202407.00129	aaa	Not submitted	2024-07-05	Detail	Delete modify
2	T202407.00127		Not submitted	2024-07-05	Detail	Delete modify
3	T202407.00126		Not submitted	2024-07-05		Delete modify
4	T202406.00662	sss	Submitted	2024-06-20	Detail	Cancel
5	T202406.00657	Top 100 Tools for Learning 2022	No Pass	2024-06-20	Detail	Delete modify
6	T202406.00582		Not submitted	2024-06-17	Detail	Delete modify
7	T202406.00566	Achieving superior electromagnetic wave absor.....	Not submitted	2024-06-14	Detail	Delete modify

Figure 13 My Submissions

(2) For papers reviewed and approved, as shown in Figure 14, in “My Center” -

“My Papers”, users can manage approved papers, perform version updates, and cross-category changes.

Home

Submit

Browse

Search

MyCenter

About

User Center

My Submissions

My Papers

My Comments

User Center > My Papers

Single submit

NO.	ePrintID	Title	Status	DateTime	FullText	Operate
1	202407.00107	信息生态视角下高校学生网络健康信息搜寻行为影响因素及互动关系研究	Pass(V1)	2024-06-20	Detail	Update Cross-Categorical

Figure 14 My Papers

Notes: Once approved, users cannot delete or withdraw papers on their own. As pre-published papers serve as proof of the first publication, the platform in principle does not perform a “withdrawal” operation. Except under special circumstances, or if the author requests it with a valid reason. If withdrawal is needed, please contact the administrator.

3.8 Paper Review and Publication

Papers submitted by users will undergo a preliminary examination by the system and the administrator, including: the system automatically performs checks for format, redundancy, plagiarism, and research nature; the administrator checks the detailed pages of the paper to ensure that all fields are filled in accurately, the PDF opens normally, the format is correct, the scholar’s identity proof meets the requirements, and the discipline classification is accurate. After passing the review, the paper will be published on the platform; and users can view it in the “My Center” or on the homepage.

3.9 Paper Browsing

The platform provides browsing services classified by subject areas; and within the classification, users can browse the latest submissions, interdisciplinary papers, and multi-version papers. Also, one can click on the author to view all papers submitted by him(/her). On the browsing list page, users can select a specific date range to browse paper information among the corresponding date. There are several facets provided:

- By submission time
- By subject classification
- By author

- By institution

Click on “Paper Browsing” to display the list of all papers on the platform and metadata information, and provide browsing by submission time, subject classification, discipline, author, etc., as shown in Figure 15.

ChinaXiv 中国科学技术论文预发布平台

深圳北理莫斯科大学 SHENZHEN MSU-BIT UNIVERSITY

Reg Login EN | 中文

Home Submit Browse Search MyCenter About

Please enter a keyword Search

Submitted Date result total 38,932 Hide Summary Hits Date Downloads

Submitted Date	Count
2024	2,297
2023	18,973
2022	2,144
2021	1,209
2020	1,077
2019	1,290
2018	3,614
2017	5,995
2016	2,333

Subjects Astrophysical processes 6,626

1. ChinaXiv:202407.00106 Download

An efficient implementation for solving the all pairs minimax path problem in an undirected dense graph

Subjects: Computer Science >> Integration Theory of Computer Science submitted time 2024-07-09

[Gangli Liu](#)

Abstract: We provide an efficient $O(n^2)$ implementation for solving the all pairs minimax path problem or widest path problem in an undirected dense graph. It is a code implementation of the Algorithm 4 (MMJ distance by Calculation and Copy) in a previous paper. The distance matrix is also called the all points path distance (APPD). We conducted experiments to test the implementation and algorithm, compared it with several other algorithms for solving the APPD matrix. Result shows Algorithm 4 works good for solving the widest path or minimax path APPD matrix. It can drastically improve the efficiency for computing the APPD matrix. There are several theoretical outcomes which claim the APPD matrix can be solved accurately in $O(n^2)$. However, they are impractical because there is no code implementation of these algorithms. It seems Algorithm 4 is the first algorithm that has an actual code implementation for solving the APPD matrix of minimax path or widest path problem in $O(n^2)$, in an undirected dense graph.

Peer Review Status: **Awaiting Review** Hits 15 Downloads 3 Comment 0

Figure 15 Paper Browsing

Click on the title of the paper to enter the detailed information page of the paper. In the details of the paper, the browsing facet of submission time and classification is provided. The relevant version information and related papers can be viewed. Users are allowed to give public comments, anonymous comments or only send comments to the author. As shown in Figure 16:

The screenshot displays the 'Detailed Browse' page for a preprint. The top navigation bar includes links for Home, Submit, Browse (active), Search, MyCenter, and About. Below the navigation bar is a search input field with the placeholder text 'Please enter a keyword' and a 'Search' button. The main content area shows the title 'An efficient implementation for solving the all pairs minimax path problem in an undirected dense graph' by Gangli Liu. The author's affiliation is Tsinghua University. The paper's subject is 'Computer Science >> Integration Theory of Computer Science'. The abstract describes an efficient $O(n^3)$ implementation for solving the all pairs minimax path problem. A right sidebar provides additional information, including download options (PDF, BIB, ZIP), a preview, peer review status (Awaiting Review), license information (CC BY 4.0), and metrics (Hits 16, Downloads 3).

您当前位置: > Detailed Browse

An efficient implementation for solving the all pairs minimax path problem in an undirected dense graph

Author: Gangli Liu ¹⁰⁰⁰³

Institute: 1. Tsinghua University

Correspondent: Gangli Liu Email: gl-liu13@mails.tsinghua.edu.cn

Submit Time: 2024-07-09 01:21:50

Abstract: We provide an efficient $O(n^3)$ implementation for solving the all pairs minimax path problem or widest path problem in an undirected dense graph. It is a code implementation of the Algorithm 4 (MMJ distance by Calculation and Copy) in a previous paper. The distance matrix is also called the all points path distance (APPD). We conducted experiments to test the implementation and algorithm, compared it with several other algorithms for solving the APPD matrix. Result shows Algorithm 4 works good for solving the widest path or minimax path APPD matrix. It can drastically improve the efficiency for computing the APPD matrix. There are several theoretical outcomes which claim the APPD matrix can be solved accurately in $O(n^3)$. However, they are impractical because there is no code implementation of these algorithms. It seems Algorithm 4 is the first algorithm that has an actual code implementation for solving the APPD matrix of minimax path or widest path problem in $O(n^3)$, in an undirected dense graph.

Minimax path problem Longest-leg path distance Min-Max-Jump distance Widest path problem
Maximum capacity path problem All points path distance Minimum spanning tree

From: Gangli Liu

Subject: Computer Science >> Integration Theory of Computer Science

Contribution: Journal Submitted

Cite as: ChinaXiv:202407.00106 (or this version ChinaXiv:202407.00106V1)

Related Information

Download

PDF
BIB
ZIP

Preview

PDF

Peer Review Status

Awaiting Review

License Information

CC BY 4.0

metrics index

Hits 16
Downloads 3

Comment Click to Comment

Figure 16 Details of Papers

3.10 Paper Search

Users can quickly locate the most relevant papers and display the relevant facet information. Users can select search fields and enter keywords for search by the search box; in addition, one can choose the corresponding discipline classification to further limit the search. As shown in Figure 17.

Home Submit Browse **Search** MyCenter About

Title

and Title

The years from

☐ Fuzzy ☒ Accurate Display Record 10 Sort Style Default

Select Subject Areas (default is to search all subject areas)

☐ Physics

☐ Astronomy

☐ Geosciences

☐ Biology

☐ Computer Science

☐ Mathematics

☐ Materials Science

☐ Energy Science

☐ General Physics: Statistical and Quantum Mechanics, Quantum Information, etc.(723)

☐ The Physics of Elementary Particles and Fields(412)

☐ Nuclear Physics(1,201)

☐ Atomic and Molecular Physics(7)

☐ Electromagnetism, Optics, Acoustics, Heat Transfer, Classical Mechanics, and Fluid Dynamics(51)

☐ Physics of Gases, Plasmas, and Electric Discharges(5)

☐ Condensed Matter: Structural, Mechanical and Thermal Properties(90)

☐ Condensed Matter: Electronic Structure, Electrical, Magnetic, and Optical Properties(36)

☐ Interdisciplinary Physics and Related Areas of Science and Technology(57)

Figure 17 Paper Search

3.11 My Center

My Center provides users with personalized services to manage paper submissions, reviewed papers, browsed papers, paper downloads, and paper comments for content management and review.

- My Submissions
- My Papers
- My Comments
- My Browse History
- My Downloads
- My Customizations

3.11.1 My Submissions

“My Submissions” manages the current paper requests submitted by the user and allows for updating and deleting the requests, as shown in Figure 18.

Home	Submit	Browse	Search	MyCenter	About
------	--------	--------	--------	----------	-------

User Center My Submissions My Papers My Comments My Browsers My Downloads	User Center > My Submissions							Arxiv submit	Single submit
	NO.	ePrintID	Title	Status	DateTime	FullText	Operate		
	1	T202407.00129	aaa	Not submitted	2024-07-05	Detail	Delete modify		
	2	T202406.00657	Top 100 Tools for Learning 2022	No Pass	2024-06-20	Detail	Delete modify		
	3	T202406.00566	Achieving superior electromagnetic wave absor.....	Not submitted	2024-06-14	Detail	Delete modify		
	4	T202406.00302	测试	Not submitted	2024-06-03	Detail	Delete modify		

Figure 18 My Submissions

3.11.2 My Papers

“My Papers” provides management for reviewed and approved papers, allowing for version updates and cross-category changes, as shown in Figure 19.

Home

Submit

Browse

Search

MyCenter

About

User Center

My Submissions

My Papers

My Comments

User Center > My Papers

Single submit

NO.	ePrintID	Title	Status	DateTime	FullText	Operate
1	202407.00107	信息生态视角下高校学生网络健康信息搜寻行为影响因素及互动关系研究	Pass(V1)	2024-06-20	Detail	Update Cross-Categorical

Figure 19 My Papers

3.11.3 My Comments

“My Comments” provides the user’s paper comment content on the platform, as shown in Figure 20.

Home

Submit

Browse

Search

MyCenter

About

User Center

My Submissions

My Papers

My Comments

User Center > My Comments

NO.	Title	Comment content	Comment time	Is it useful?	Status	Operate
1	信息生态视角下高校学生网络健康信息搜寻行为影响因素及互动关系研究	测试/test:视角新颖, 有借鉴意义。	2024-07-09		Pass	Delete

Figure 20 My Comments

3.11.4 My Browse History

“My Browse History” provides the user with a log of paper browsing history on the platform, as shown in Figure 21.

Home	Submit	Browse	Search	MyCenter	About
------	--------	--------	--------	----------	-------

User Center My Submissions My Papers My Comments My Browsers	User Center > My Browsers		
	NO.	Title	Browse Time
	1	A Random Integration Algorithm for High-dimensional Function Spaces	2024-06-17 14:04:10

Figure 21 My Browse History

3.11.5 My Downloads

“My Downloads” provides a log of the user’s paper downloads, as shown in Figure 22.

Home	Submit	Browse	Search	MyCenter	About
------	--------	--------	--------	----------	-------

User Center My Submissions My Papers My Comments My Browsers My Downloads	User Center > My Downloads		
	NO.	Title	Download Time
	1	“3D打印” 服务的知识产权风险及其应对策略 罗娇	2024-07-03 09:45:46
	2	Top 100 Tools for Learning 2022	2024-06-20 15:30:39
	3	Top 100 Tools for Learning 2022	2024-06-20 11:29:33
	4	A Random Integration Algorithm for High-dimensional Function Spaces	2024-06-17 14:04:14

Figure 22 My Downloads

3.11.6 My Customizations

“My Customizations” provides a custom function for users to obtain the latest papers based on keyword searches, as shown in Figure 23.

Home

Submit

Browse

Search

MyCenter

About

User Center

My Submissions

My Papers

User Center > My Customizations

Add Custom

NO.	Custom name	Push mode	Frequency	Customization time	Operate
暂无数据					

Update

Delete

Figure 23 My Customizations

The setting method is as follows: click on the “Add Custom” in the upper right corner to enter the custom page, enter the custom name, the custom subject word, select the push frequency, and the default custom is E-mail push.

Click on “Save” to complete the customization addition. The system will

automatically send the latest literature to the email address provided by the user (i.e. the E-mail address of the registered account), as shown in Figure 24.

Figure 24 Add New Custom

4 Inquiry of International Journal Preprint Policies

Users can inquire about the preprint policies of major international publishers and over 50,000 journals through the International Journal Preprint Policy — Preprint policy of Journal (<https://www.chinaxiv.org/yuyinben.htm>); the preprint policy can also be inquired on the official website of the journal.

5 Contact Us

If any problems, please contact the platform administrator as soon as possible.

Miss Luo: WeCom(*WeChat at Work*)- Contacts- Library (Option for Shenzhen MSU-BIT University Users); E-mail: luo_xy@smbu.edu.cn.

ChinaXiv: eprint@mail.las.ac.cn.