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Тема: Синтез изображений по текстовому описанию с использованием диффузионных нейросетевых моделей

Ключевые слова: text-to-image generation, diffusion models, generative AI image synthesis.

Поисковые запросы, выполненные по ключевым словам:

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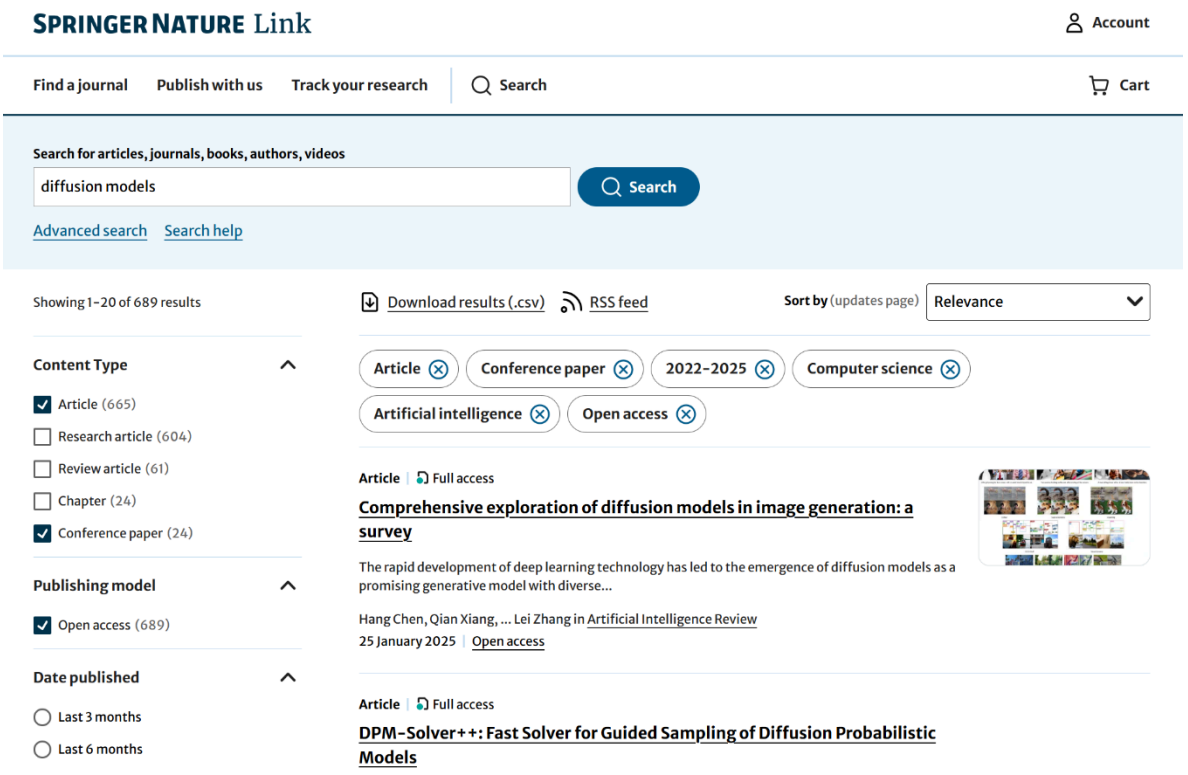
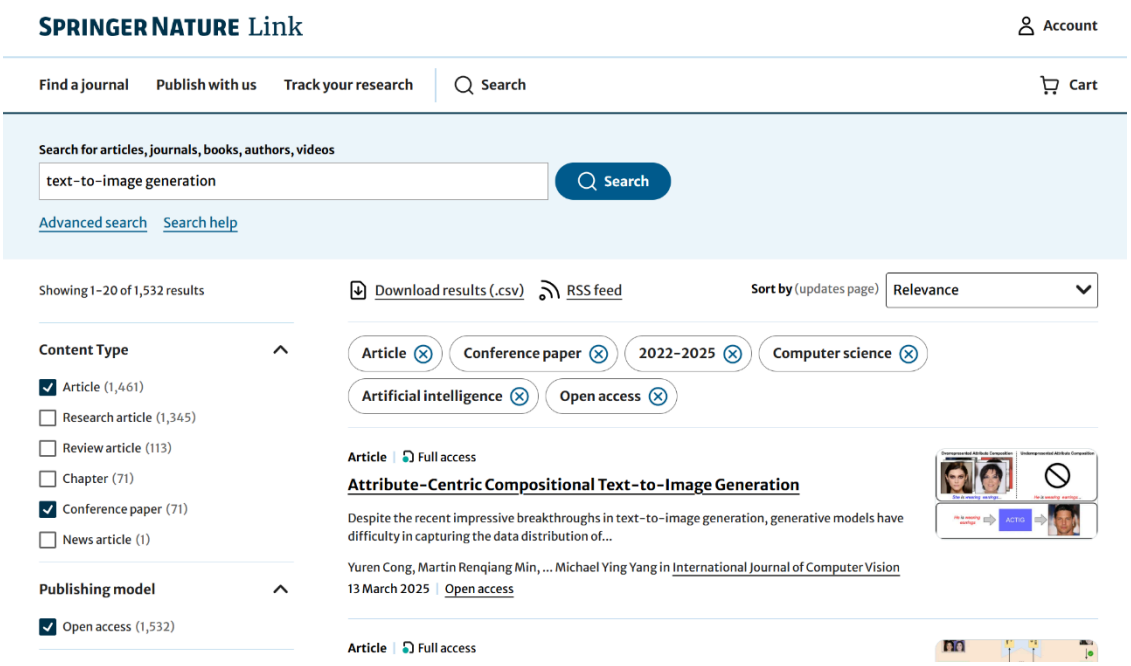


– text-to-image generation — 1532 публикации



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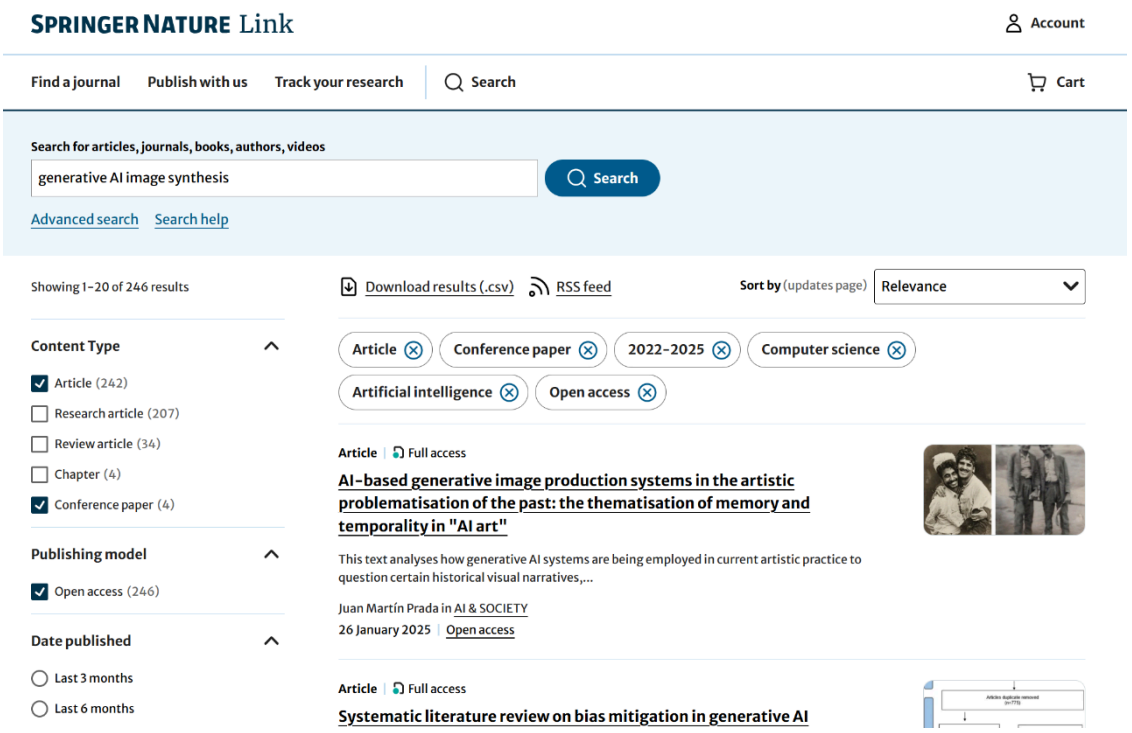

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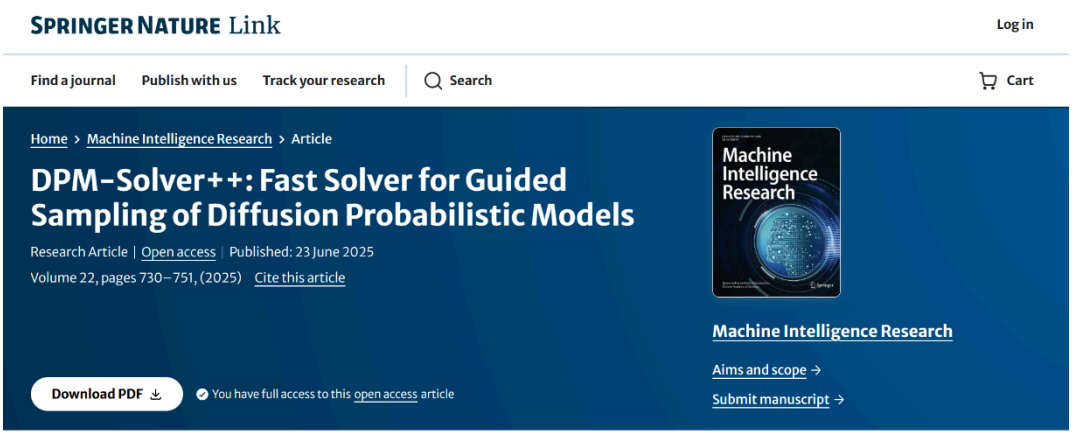
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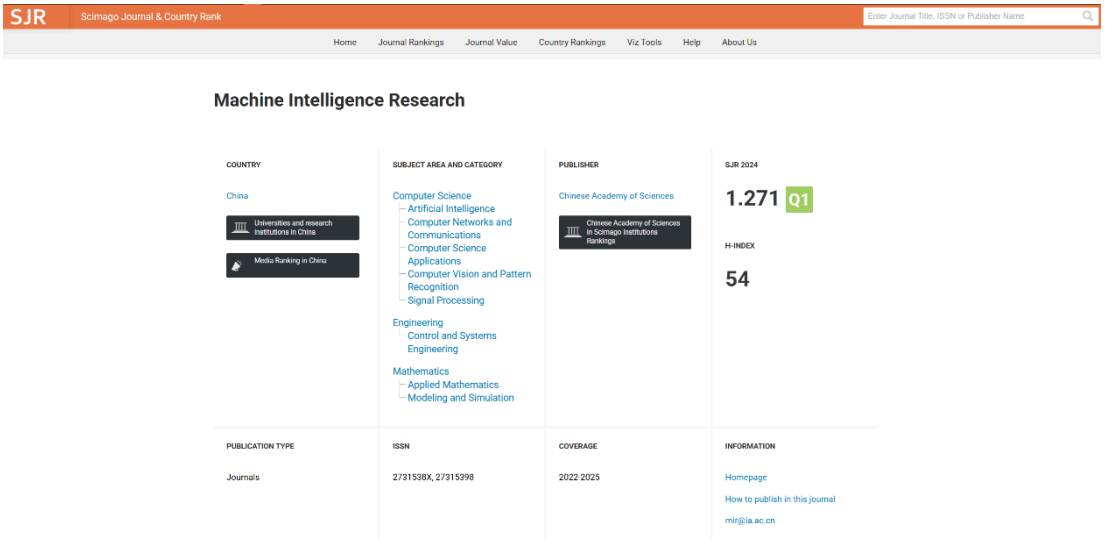
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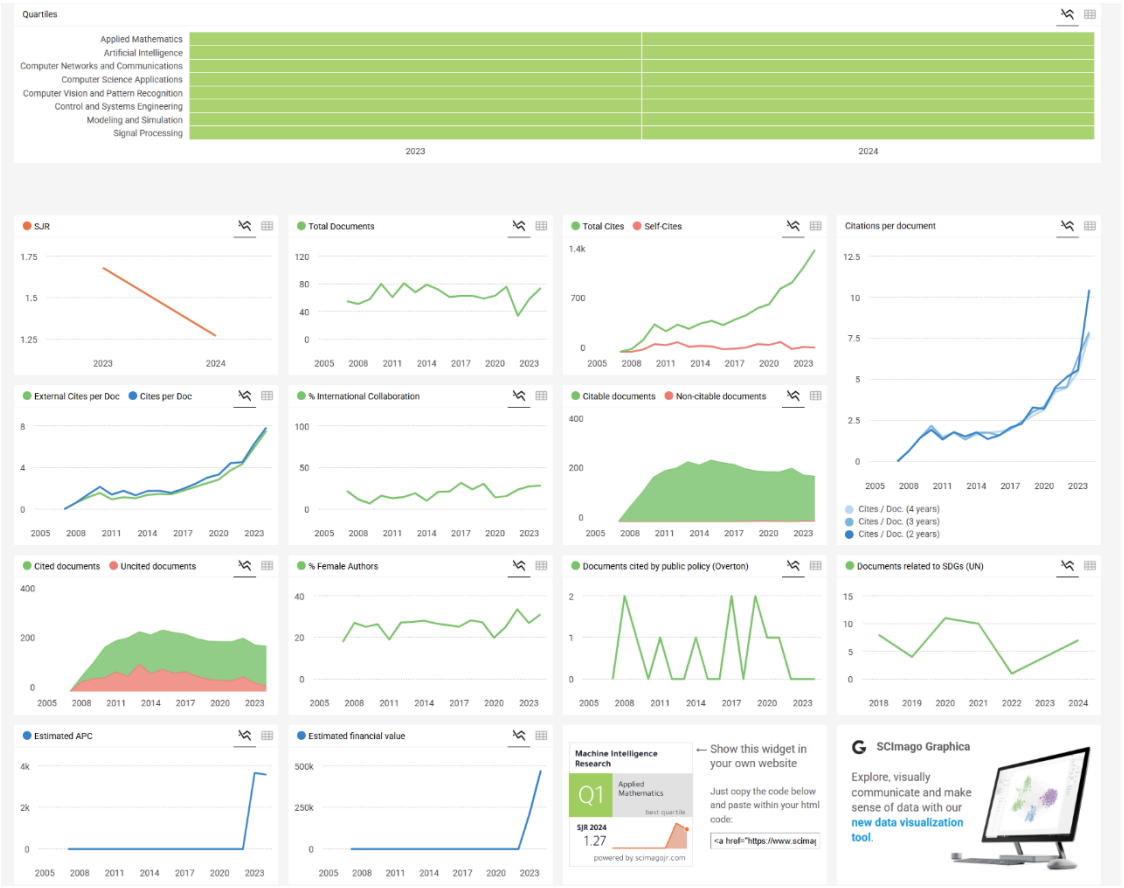

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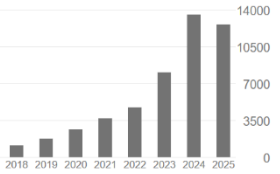

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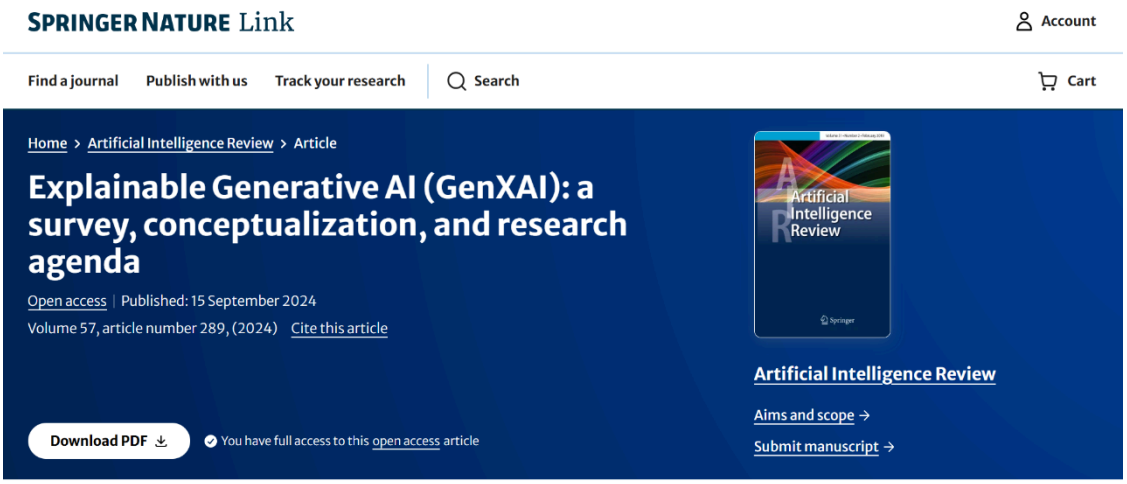
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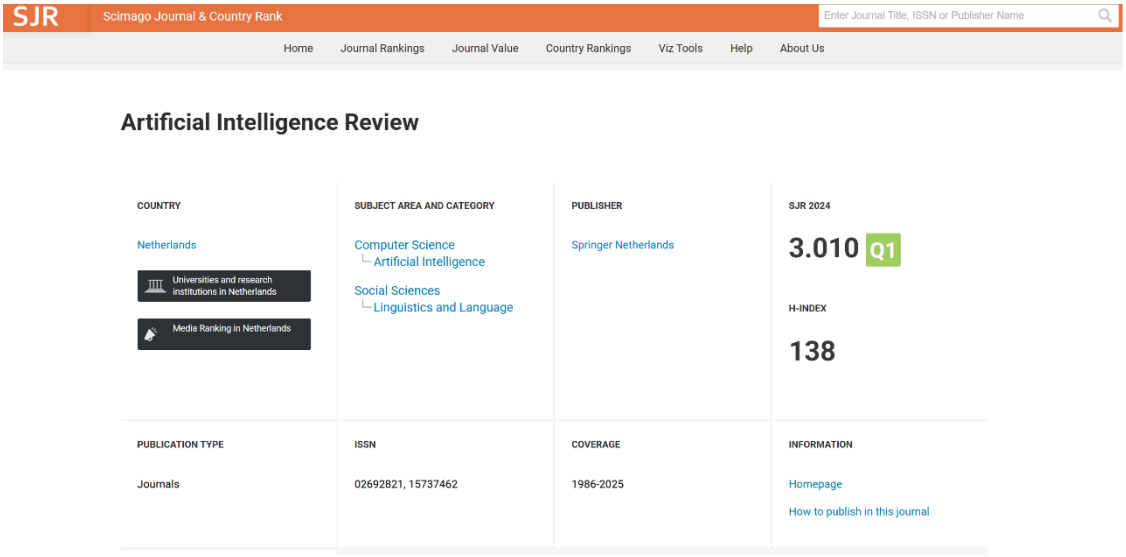
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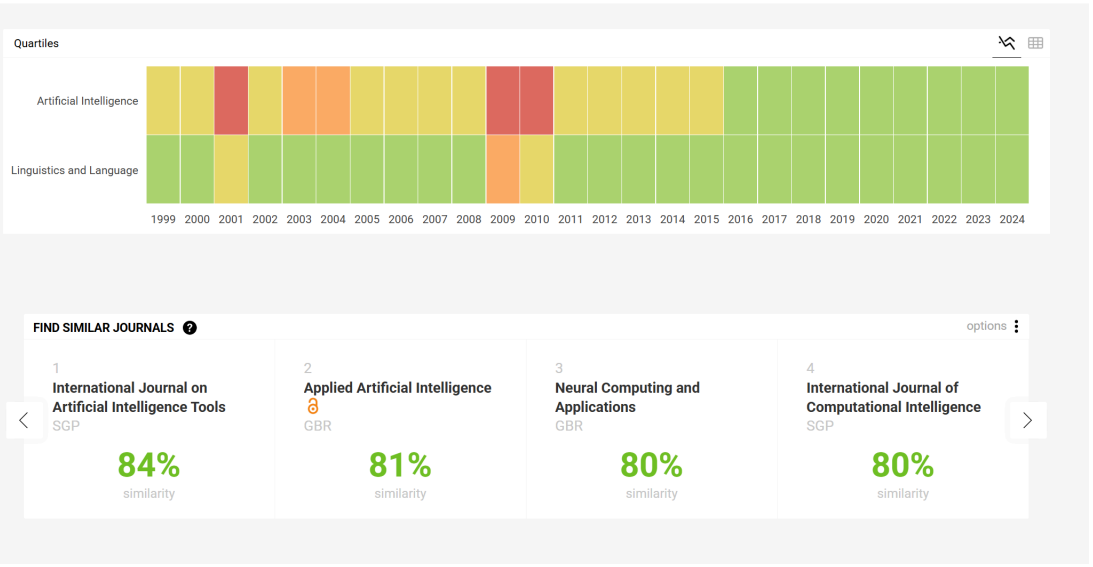
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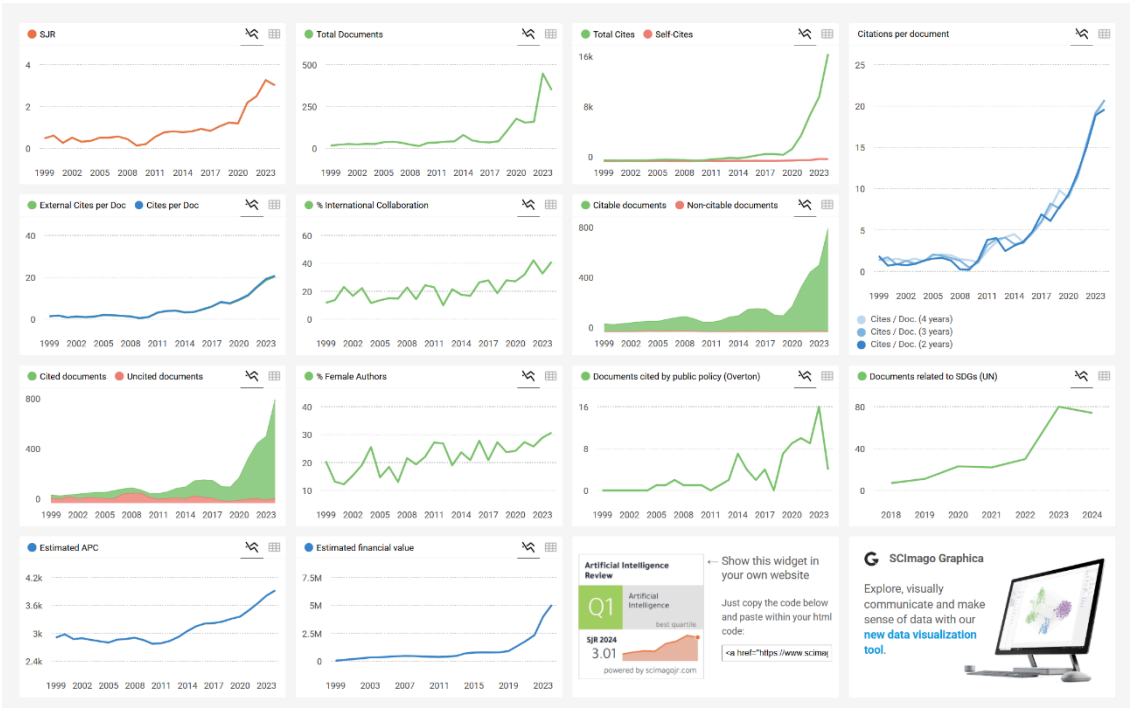
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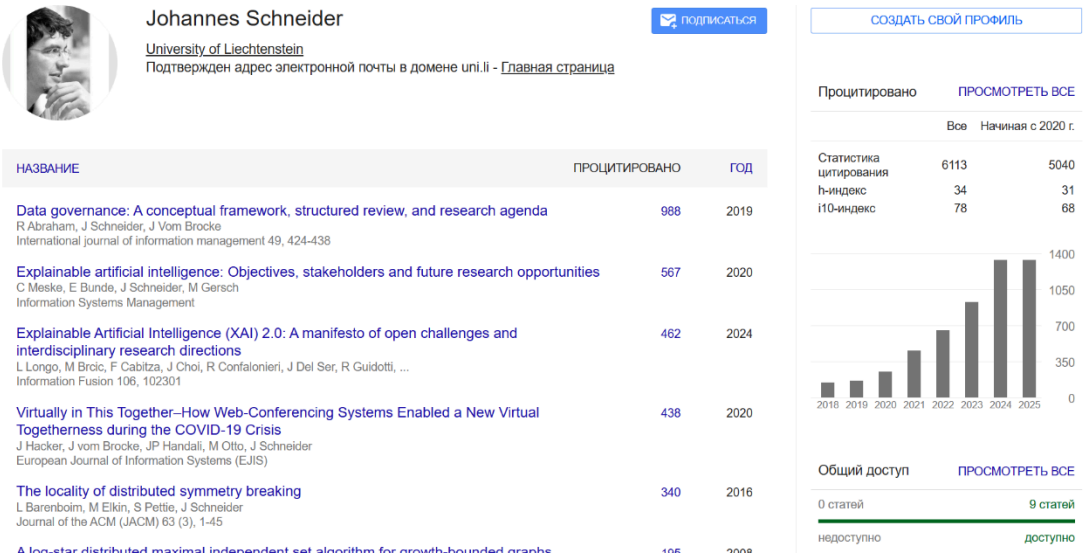

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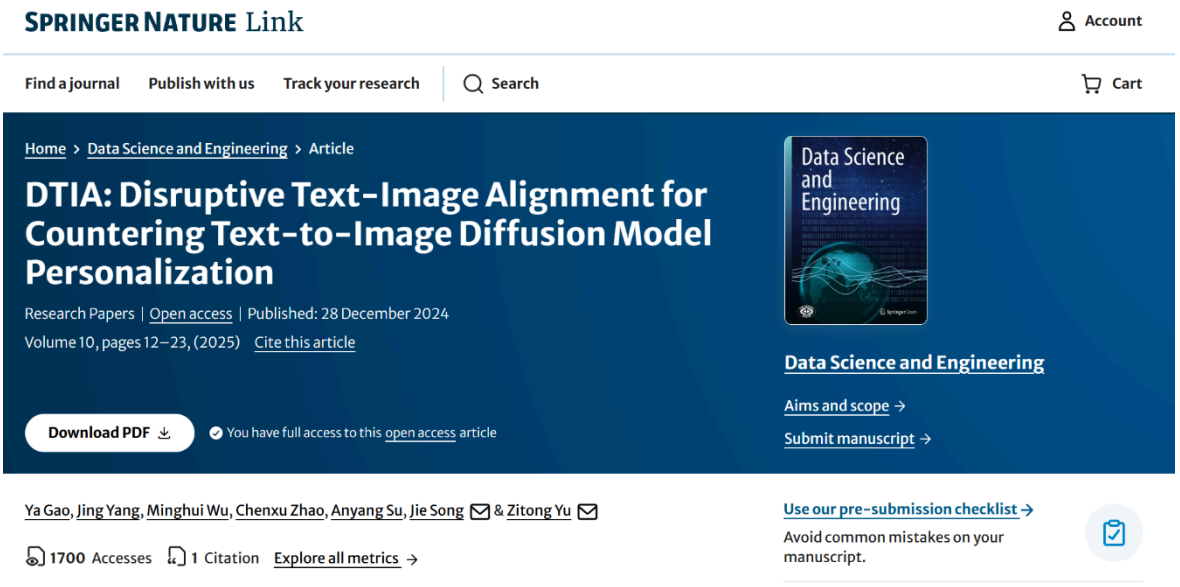

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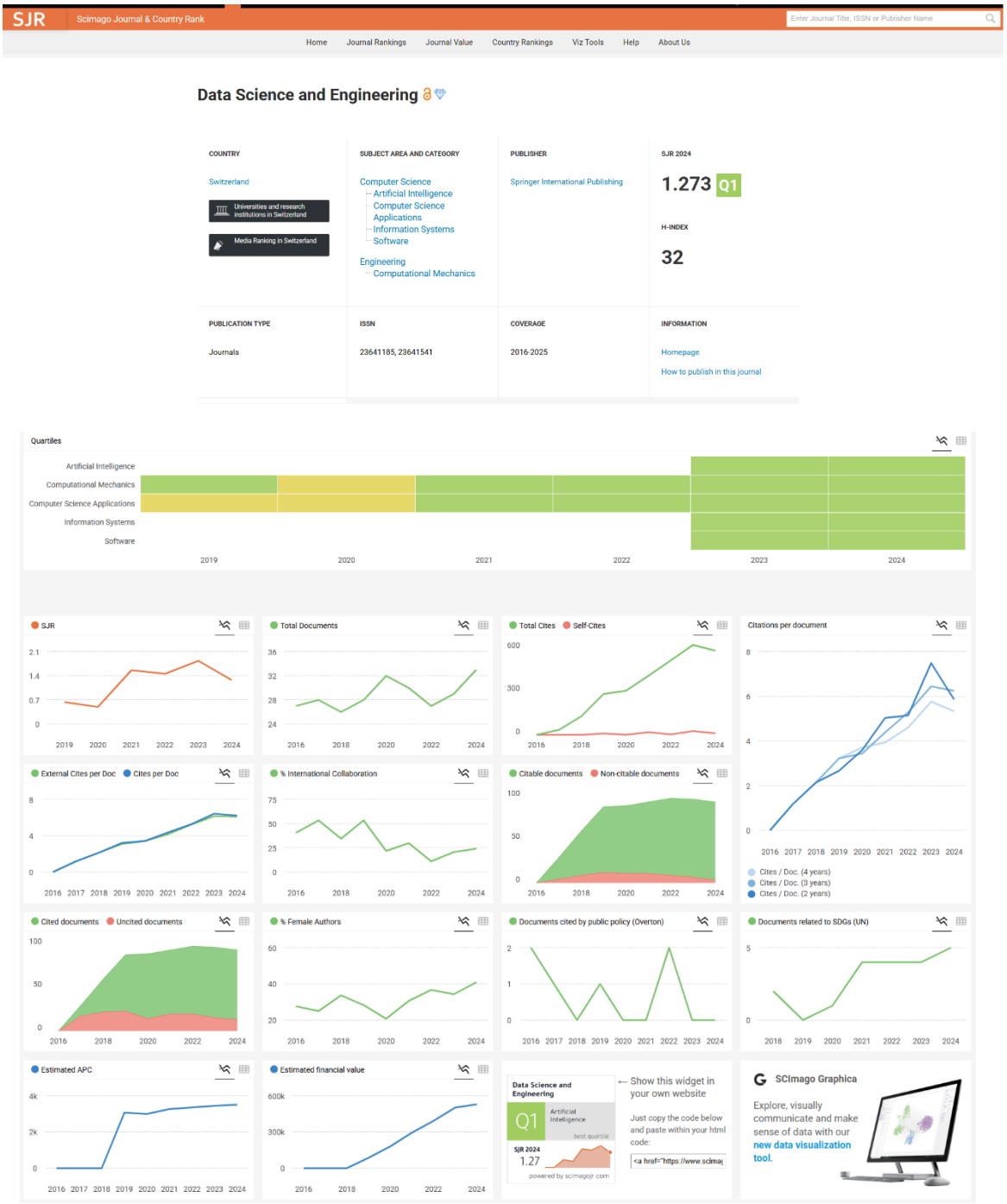
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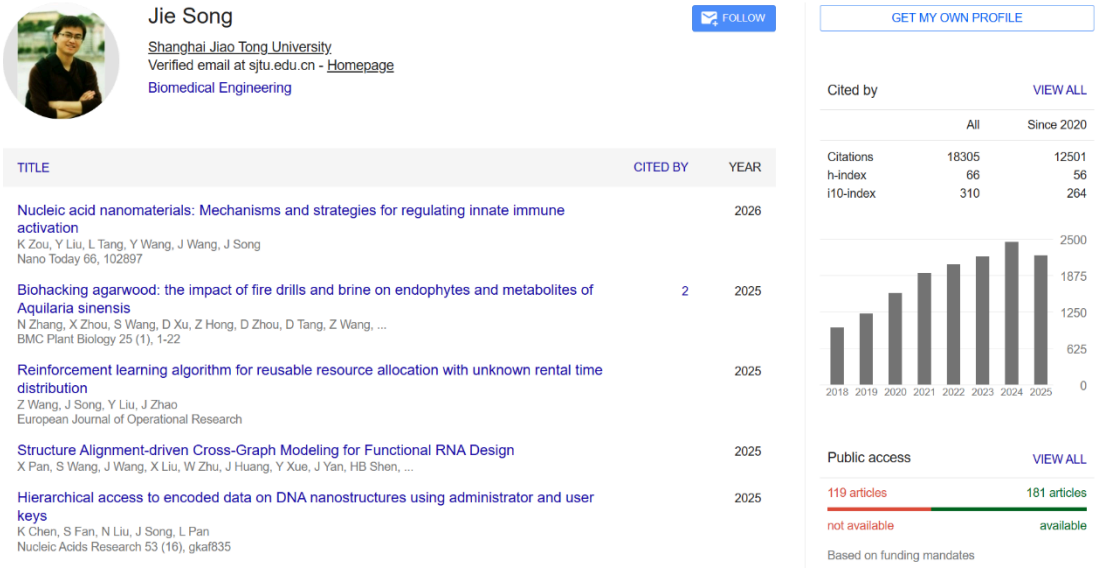

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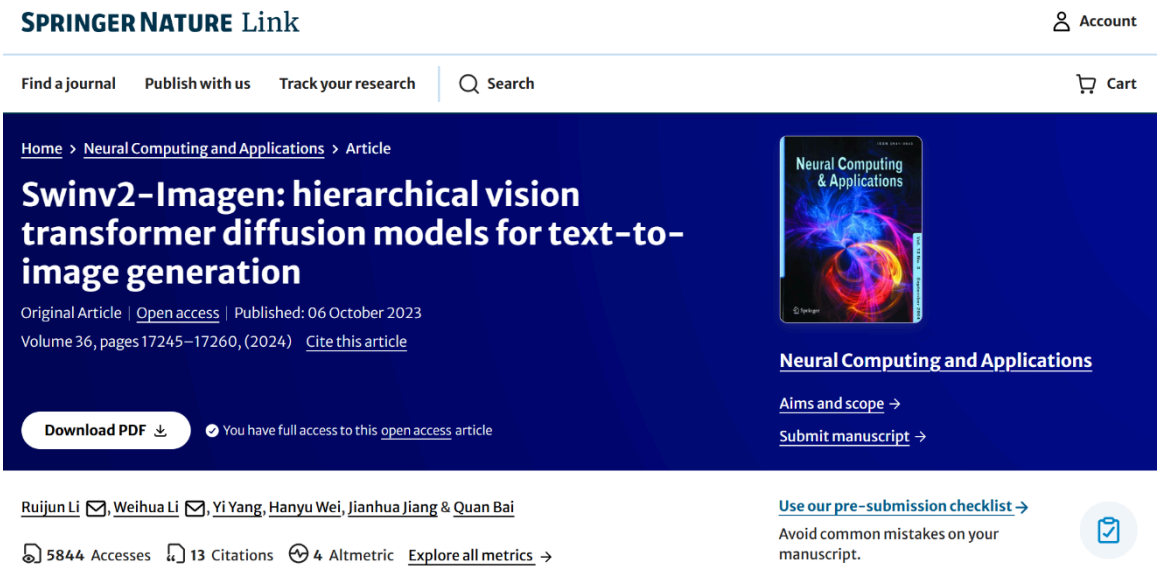

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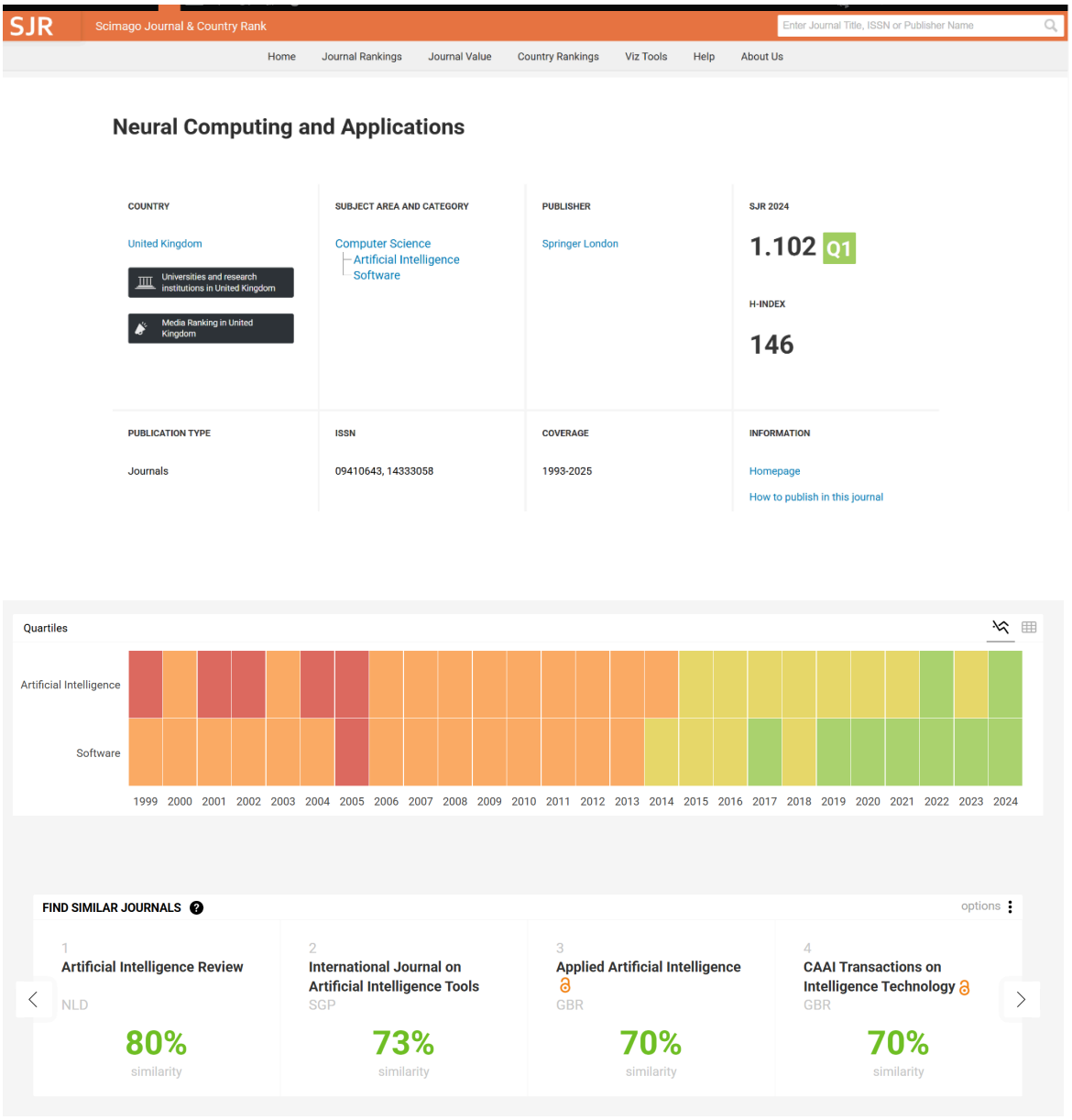
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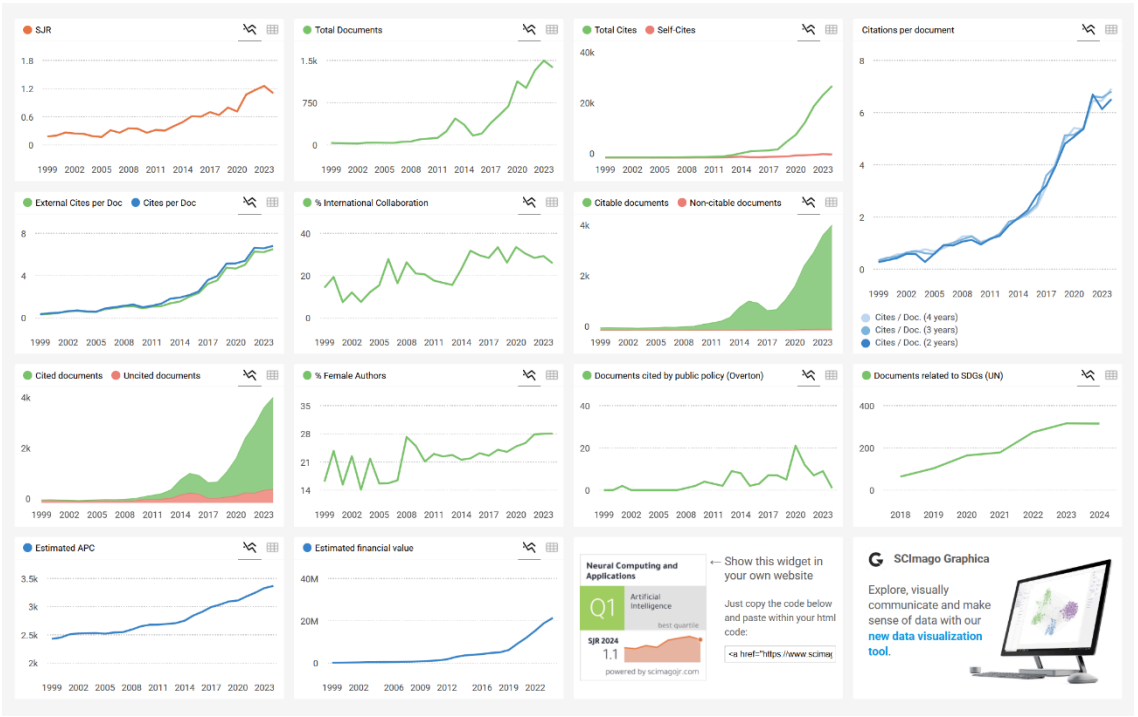

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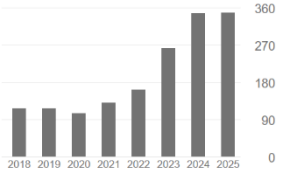

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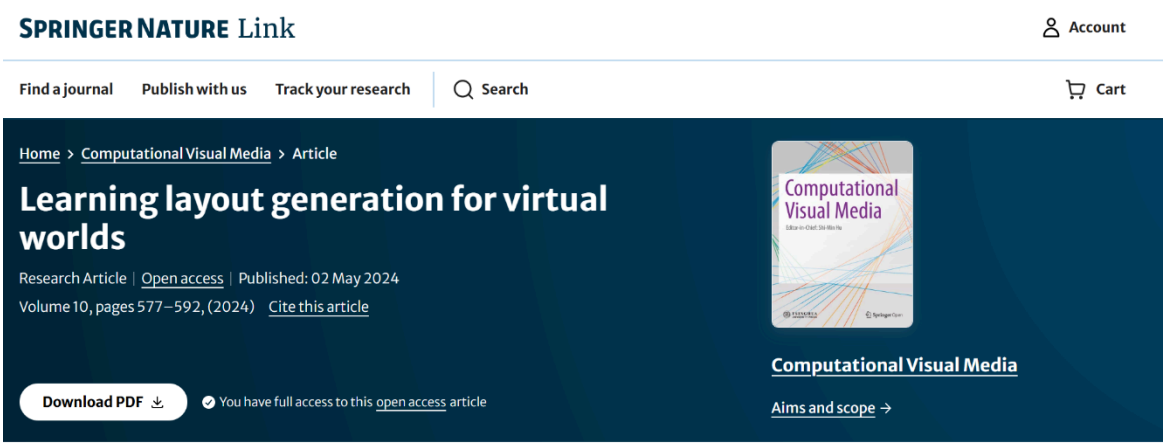
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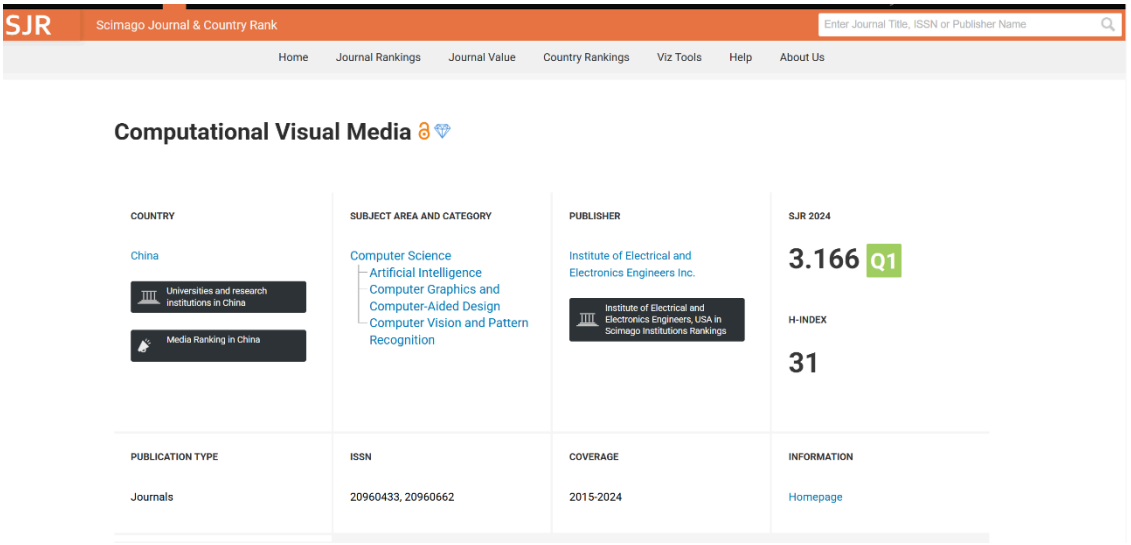
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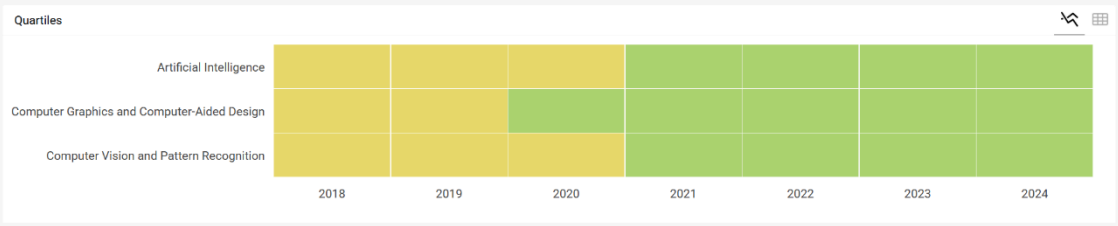
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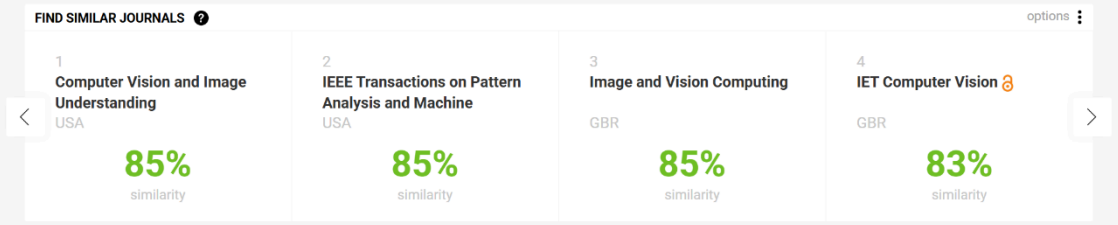
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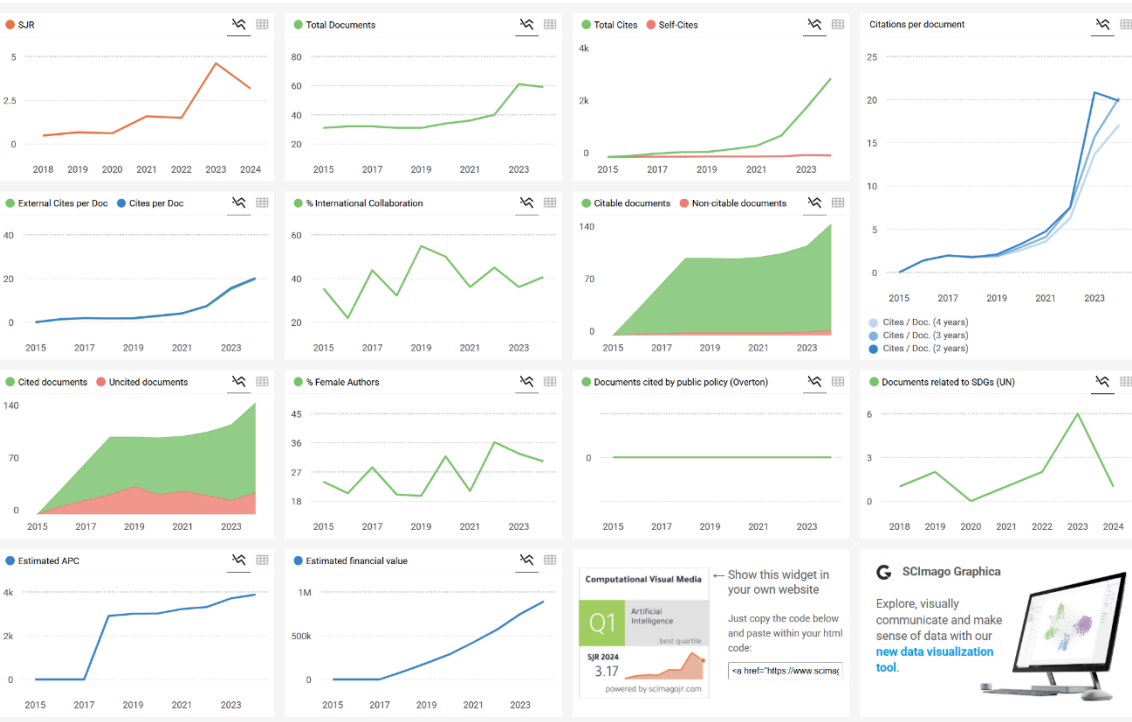
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ПОДПИСАТЬСЯ

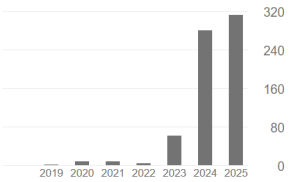
СОЗДАТЬ СВОЙ ПРОФИЛЬ

The University of Melbourne
Подтвержден адрес электронной почты в домене student.unimelb.edu.au
Computer Science

НАЗВАНИЕ	ПРОЦИТИРОВАНО	ГОД
High-Accuracy Fractured Object Reassembly Under Arbitrary Poses QC Xu, YP Cao, W Cheng, TJ Mu, Y Shan, YL Yang, SM Hu International Conference on Computational Visual Media, 194-215	1	2025
Nvcomposer: Boosting generative novel view synthesis with multiple sparse and unposed images L Li, Z Zhang, Y Li, J Xu, W Hu, X Li, W Cheng, J Gu, T Xue, Y Shan Proceedings of the Computer Vision and Pattern Recognition Conference, 777-787	3	2025
Novelgs: Consistent novel-view denoising via large gaussian reconstruction model J Liu, J Xu, W Cheng, Y Gao, X Wang, Y Shan, Y Tang arXiv preprint arXiv:2411.16779	3	2024
Learning layout generation for virtual worlds W Cheng, Y Shan Computational Visual Media 10 (3), 577-592	2	2024
Instantmesh: Efficient 3d mesh generation from a single image with sparse-view large reconstruction models J Xu, W Cheng, Y Gao, X Wang, S Gao, Y Shan arXiv preprint arXiv:2404.07191	288	2024
SparseGNV: generating novel views of indoor scenes with sparse RGB-D images	1	2024

Процитировано

	Все	Начиная с 2020 г.
Статистика цитирования	681	677
h-индекс	8	8
i10-индекс	8	8



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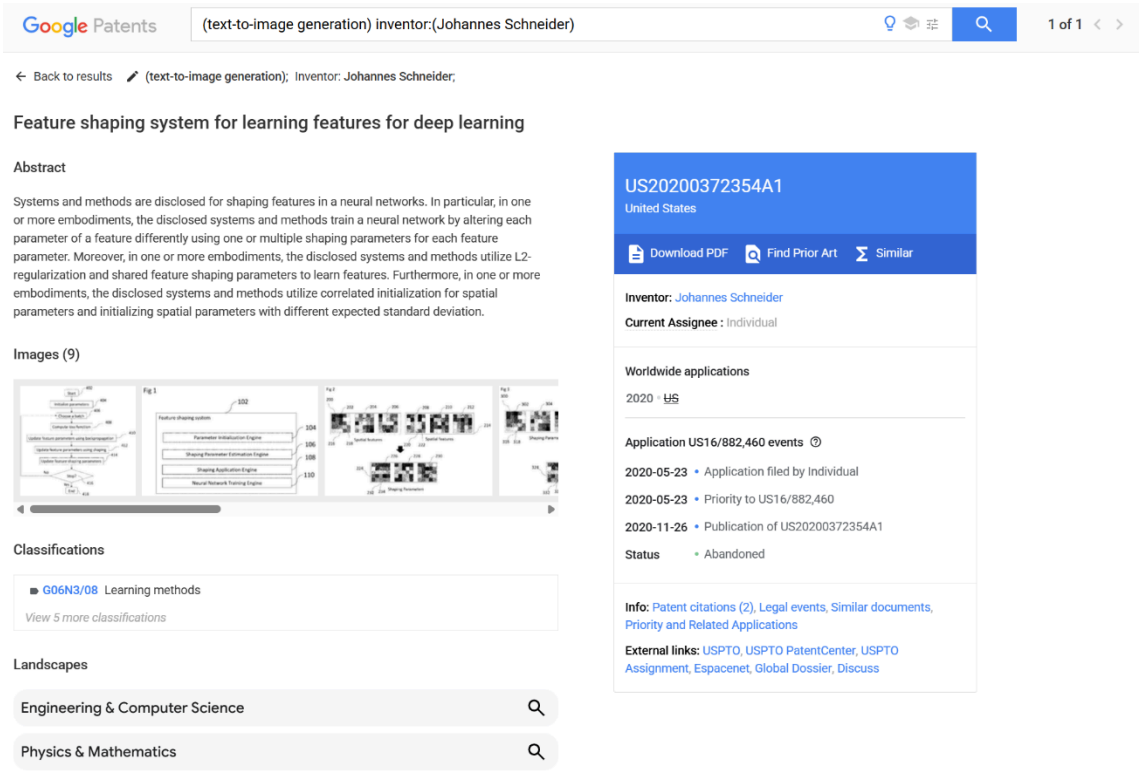

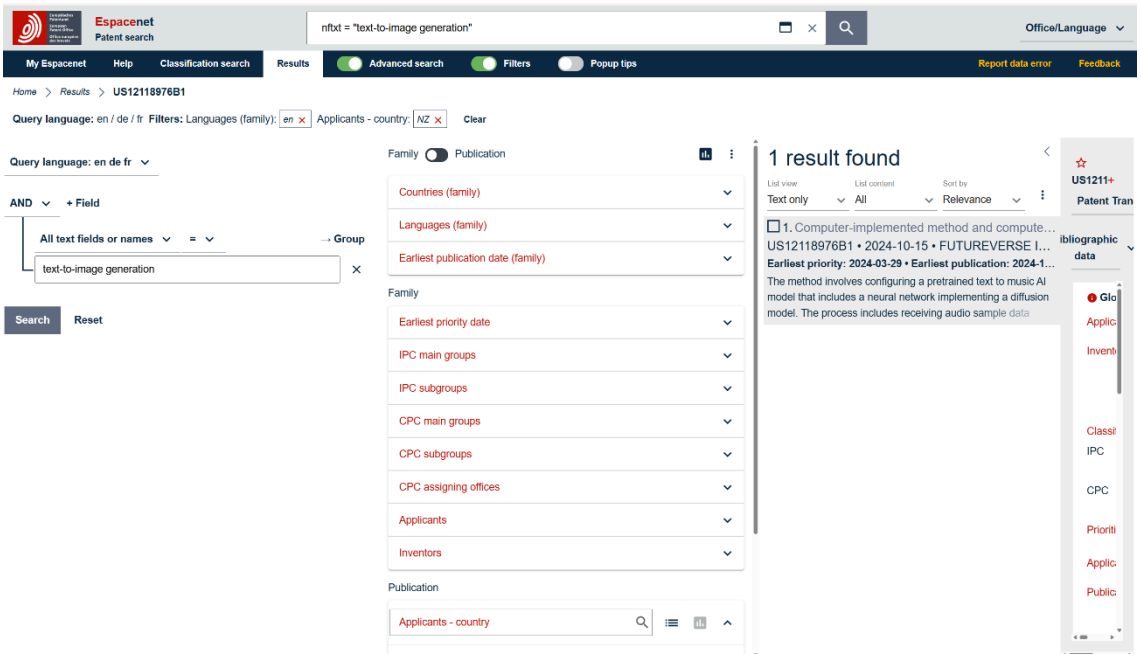
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1. Computer-implemented method and compute…
US12118976B1 • 2024-10-15 • FUTUREVERSE I…
Earliest priority: 2024-03-29 • Earliest publication: 2024-1…
The method involves configuring a pretrained text to music AI model that includes a neural network implementing a diffusion model. The process includes receiving audio sample data
US1211+
Patent Tran
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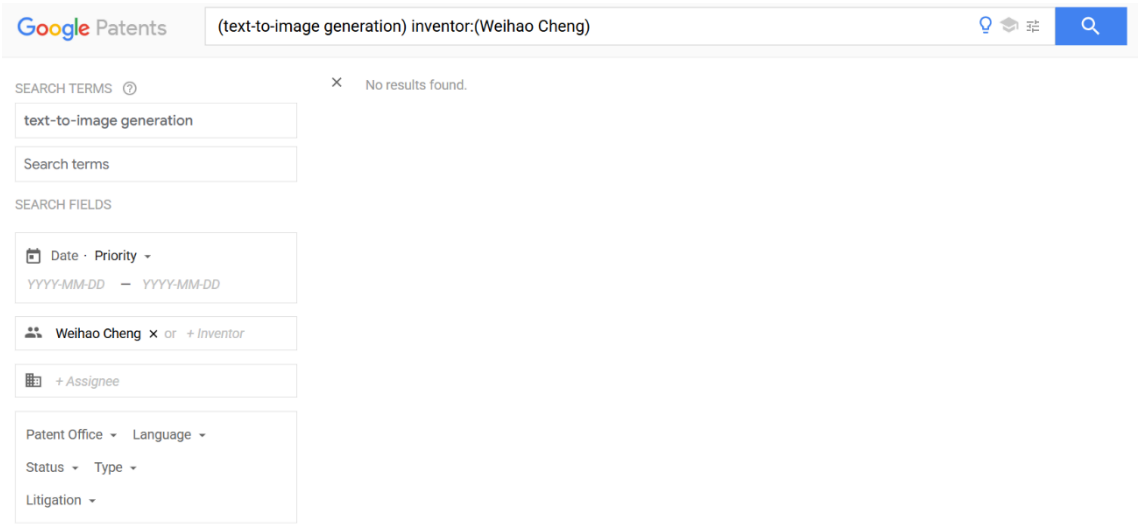
Google Patents
(text-to-image generation) inventor:(Weihao Cheng)
SEARCH TERMS
text-to-image generation
Search terms
SEARCH FIELDS
Date · Priority
YYYY-MM-DD — YYYY-MM-DD
Weihao Cheng × or + Inventor
+ Assignee
Patent Office
Language
Status
Type
Litigation
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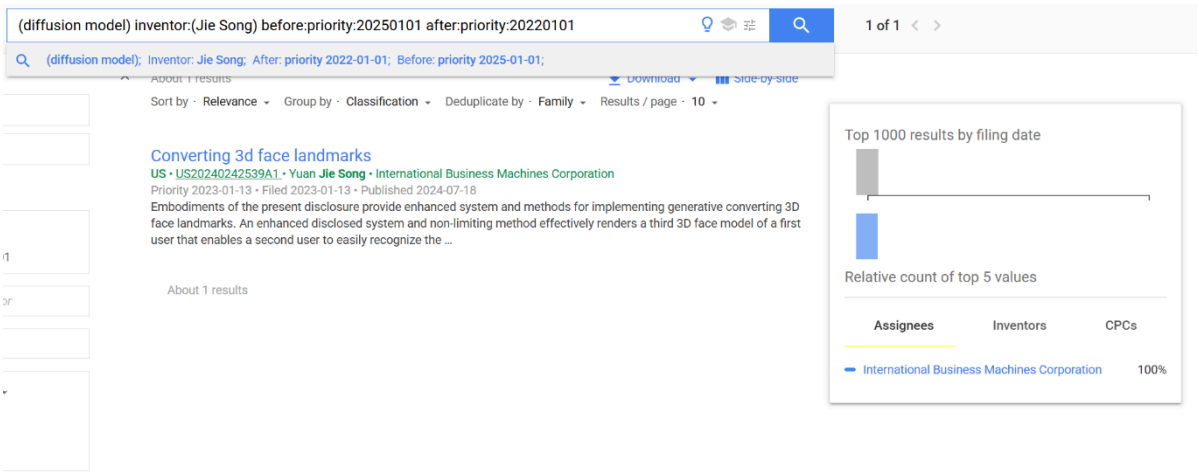
(diffusion model) inventor:(Jie Song) before:priority:20250101 after:priority:20220101
1 of 1
(diffusion model); Inventor: Jie Song; After: priority 2022-01-01; Before: priority 2025-01-01;
Sort by · Relevance
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Deduplicate by · Family
Results / page · 10
Converting 3d face landmarks
US · US20240242539A1 · Yuan Jie Song · International Business Machines Corporation
Priority 2023-01-13 • Filed 2023-01-13 • Published 2024-07-18
Embodiments of the present disclosure provide enhanced system and methods for implementing generative converting 3D face landmarks. An enhanced disclosed system and non-limiting method effectively renders a third 3D face model of a first user that enables a second user to easily recognize the …
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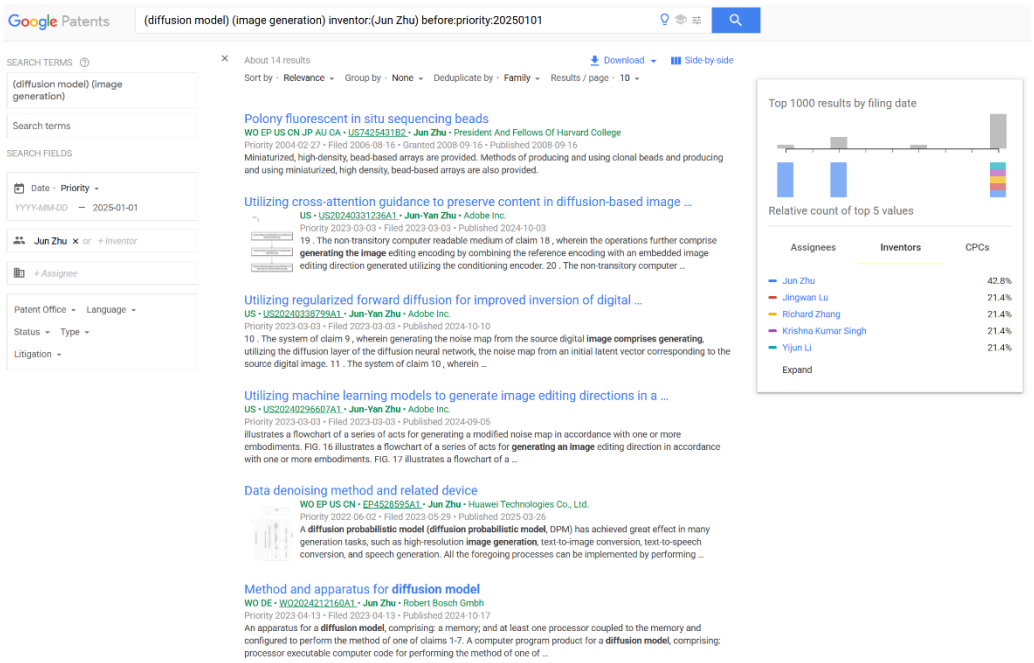


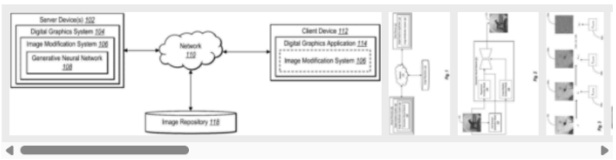
← Back to results ✎ (diffusion model); Inventor: Jun Zhu; Before: priority 2025-01-01;

Utilizing cross-attention guidance to preserve content in diffusion-based image modifications

Abstract

The present disclosure relates to systems, non-transitory computer-readable media, and methods for utilizing machine learning models to generate modified digital images. In particular, in some embodiments, the disclosed systems generate image editing directions between textual identifiers of two visual features utilizing a language prediction machine learning model and a text encoder. In some embodiments, the disclosed systems generated an inversion of a digital image utilizing a regularized inversion model to guide forward diffusion of the digital image. In some embodiments, the disclosed systems utilize cross-attention guidance to preserve structural details of a source digital image when generating a modified digital image with a diffusion neural network.

Images (19)



Classifications

G06T11/60 Editing figures and text; Combining figures or text

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Landscapes

Engineering & Computer Science

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US12333636B2
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Inventor: Yijun Li, Richard Zhang, Krishna Kumar Singh, Jingwan Lu, Gaurav Parmar, Jun-Yan Zhu

Current Assignee : Adobe Inc

Worldwide applications

2023 · US

Application US18/178,194 events

2023-03-03 • Application filed by Adobe Inc
2023-03-03 • Priority to US18/178,194
2023-03-03 • Assigned to ADOBE INC.
2024-10-03 • Publication of US20240331236A1
2025-06-17 • Application granted
2025-06-17 • Publication of US12333636B2
Status • Active
2043-08-12 • Adjusted expiration

Info: Patent citations (12), Non-patent citations (60) , Cited by (4), Legal events, Similar documents, Priority and Related Applications

External links: USPTO, USPTO PatentCenter, USPTO Assignment, Espacenet, Global Dossier, Discuss

← Back to results ✎ (diffusion model) (image generation); Inventor: Jun Zhu; Before: priority 2025-01-01;

Utilizing regularized forward diffusion for improved inversion of digital images

Abstract

The present disclosure relates to systems, non-transitory computer-readable media, and methods for utilizing machine learning models to generate modified digital images. In particular, in some embodiments, the disclosed systems generate image editing directions between textual identifiers of two visual features utilizing a language prediction machine learning model and a text encoder. In some embodiments, the disclosed systems generated an inversion of a digital image utilizing a regularized inversion model to guide forward diffusion of the digital image. In some embodiments, the disclosed systems utilize cross-attention guidance to preserve structural details of a source digital image when generating a modified digital image with a diffusion neural network.

Images (19)

Classifications

G06F40/126 Character encoding

View 5 more classifications

Landscapes

Engineering & Computer Science

Theoretical Computer Science

US20240338799A1
United States

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Inventor: Yijun Li, Richard Zhang, Krishna Kumar Singh, Jingwan Lu, Gaurav Parmar, Jun-Yan Zhu

Current Assignee : Adobe Inc

Worldwide applications

2023 · US

Application US18/178,212 events

2023-03-03 • Application filed by Adobe Inc

2023-03-03 • Priority to US18/178,212

2023-03-03 • Assigned to ADOBE INC.

2024-10-10 • Publication of US20240338799A1

Status • Pending

Info: Patent citations (2), Non-patent citations (2) , Cited by (4), Legal events, Similar documents, Priority and Related Applications

External links: USPTO, USPTO PatentCenter, USPTO Assignment, Espacenet, Global Dossier, Discuss

← Back to results ✎ (diffusion model) (image generation); Inventor: Jun Zhu; Before: priority 2025-01-01;

Data denoising method and related device

Abstract

A data denoising method and a related device are provided. According to the method, an artificial intelligence technology may be used to perform denoising on data, and any target denoising operation in at least one denoising operation performed on noisy data includes: generating, based on first prediction information and second prediction information, distribution information corresponding to the target denoising operation, where the first prediction information indicates predicted noise between second noisy data and clean data, the second prediction information indicates a square of the predicted noise between the second noisy data and the clean data or indicates a square of a predicted distance between the first prediction information and actual noise, and the actual noise includes actual noise between the second noisy data and the clean data, and sampling denoised data in distribution space to which the distribution information points. Because distribution information corresponding to a denoising operation is not directly learned of, a quantity of denoising operations performed on noisy data is not constrained by a training phase, and flexibility of an inference phase is improved.

Images (19)

Classifications

G06N3/08 Learning methods

View 10 more classifications

Landscapes

Engineering & Computer Science

Theoretical Computer Science

EP4528595A1
European Patent Office

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Other languages: German, French

Inventor: Jun Zhu, Fan BAO, Chongxuan LI, Jiacheng SUN

Current Assignee : Tsinghua University , Huawei Technologies Co Ltd

Worldwide applications

2022 · CN 2023 · EP WO 2024 · US

Application EP23815135.1A events

2023-05-29 • Application filed by Tsinghua University, Huawei Technologies Co Ltd

2025-03-26 • Publication of EP4528595A1

2025-08-27 • Publication of EP4528595A4

Status • Pending

Info: Patent citations (15), Cited by (4), Legal events, Similar documents, Priority and Related Applications

External links: Espacenet, EPO GPI, EP Register, Global Dossier, Discuss

Вывод:

Проведённый анализ международных источников показал, что тема генерации изображений является одной из самых важных в мировой науке и имеет огромное практическое значение. Её актуальность подтверждается публикациями в лучших мировых журналах (категории Q1) и высоким индексом Хирша исследователей. Практическая значимость подтверждается прямой связью между наукой и IT-компаниями: передовые разработки, созданные ведущими университетскими учёными, патентуются крупными компаниями (Adobe, Huawei, IBM).