

An architectural rendering of a modern building with a central courtyard. The building features multiple levels with large glass windows and balconies. In the foreground, there is a large, circular, light-colored courtyard area where many people are walking and sitting. In the background, a city skyline is visible under a cloudy sky. Several large, dark, geometric, cage-like structures are suspended in the air, some containing plants and people. The overall scene is a vibrant, modern urban environment.

AI as a Daily Reading and Poster Design Partner

28 Nov 2024

Lok Hang Cheung (Henrik) | Design School

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Parastoo Samadi ✉, Sepideh Sedghimehr, Shirin Shevidi & Ali Andaji Garmaroodi

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Abstract

This paper introduces a computational framework driven by a generative algorithm that allows both architects and non-experts to create various floorplan layouts for predefined residential unit boundaries. This generative tool, implemented in GhPython and Grasshopper, enables users to customize floor plans by defining specific area requirements, accommodating diverse user preferences and facilitate the design process. Also, a catalog of module-based slices containing different functional spaces with determined dimensions have been designed as a reference for the algorithm to generate the final layouts. The generative algorithm, which uses numerical data from each slice, produces floorplan configurations based on the adjacency of functional spaces and user-defined parameters. The bottom-up approach of the algorithm means that the results are noticeably influenced by the designed slices. With the intention of providing the users with a more intuitive understanding of housing layouts, the generated floorplans are presented as furnished 3D models, clustered under specific categories.

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**Frequent
translations needed**

Part 1: AI as a reading partner (1/3)


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Show journal index and ranking:
Intuitive for initial screening

Part 1: AI as a reading partner (2/3)

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The screenshot shows a web browser window displaying a Sage Journals article. The address bar shows the URL: journals.sagepub.com/doi/abs/10.1177/14780771231209458. The page header includes the Sage Journals logo, a search bar with the text "Search this journal" and "Enter search terms...", and links for "Advanced search", "Access/Profile", and "Cart". Below the header, there are navigation options: "Browse by discipline" and "Information for". The main content area features a dark banner for the "International Journal of Architectural Computing" with a "View All Publication Partners" dropdown, "Impact Factor: 1.6 / 5-Year Impact Factor: 2.0", and buttons for "Journal Homepage" and "Submission Guidelines". The article title is "Latent morphologies: Encoding architectural features and decoding their structure through artificial intelligence" by Dongyun Kim, with a link to "View all authors and affiliations". The article is identified as "Volume 22, Issue 3" with the DOI link: https://doi.org/10.1177/14780771231209458. A navigation bar below the title offers options: "Contents", "Get access", "Cite article", "Share options", "Information, rights and permissions", and "Metrics and citations". The "Abstract" section begins with the text: "This article explores the impact of Artificial Intelligence (AI) on the architectural discipline, focusing on generative models and their controllability. While generative models have revolutionized the design process by freeing designers from specific tasks and allowing them to focus on desired results, the reliance on randomness frequently hinders controllability and meaningful experimentation. To address this challenge, the article proposes the construction of an encyclopedic architectural dataset, encompassing various". On the right side, a "Similar articles" section is partially visible, showing a "Restricted access" notice and a link to "Toward data anomaly detection for automated structural health monitoring: Exploiting generative adversarial nets". A "Privacy" button is located in the bottom right corner.

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Latent morphologies: Encoding architectural features and decoding their structure through artificial intelligence

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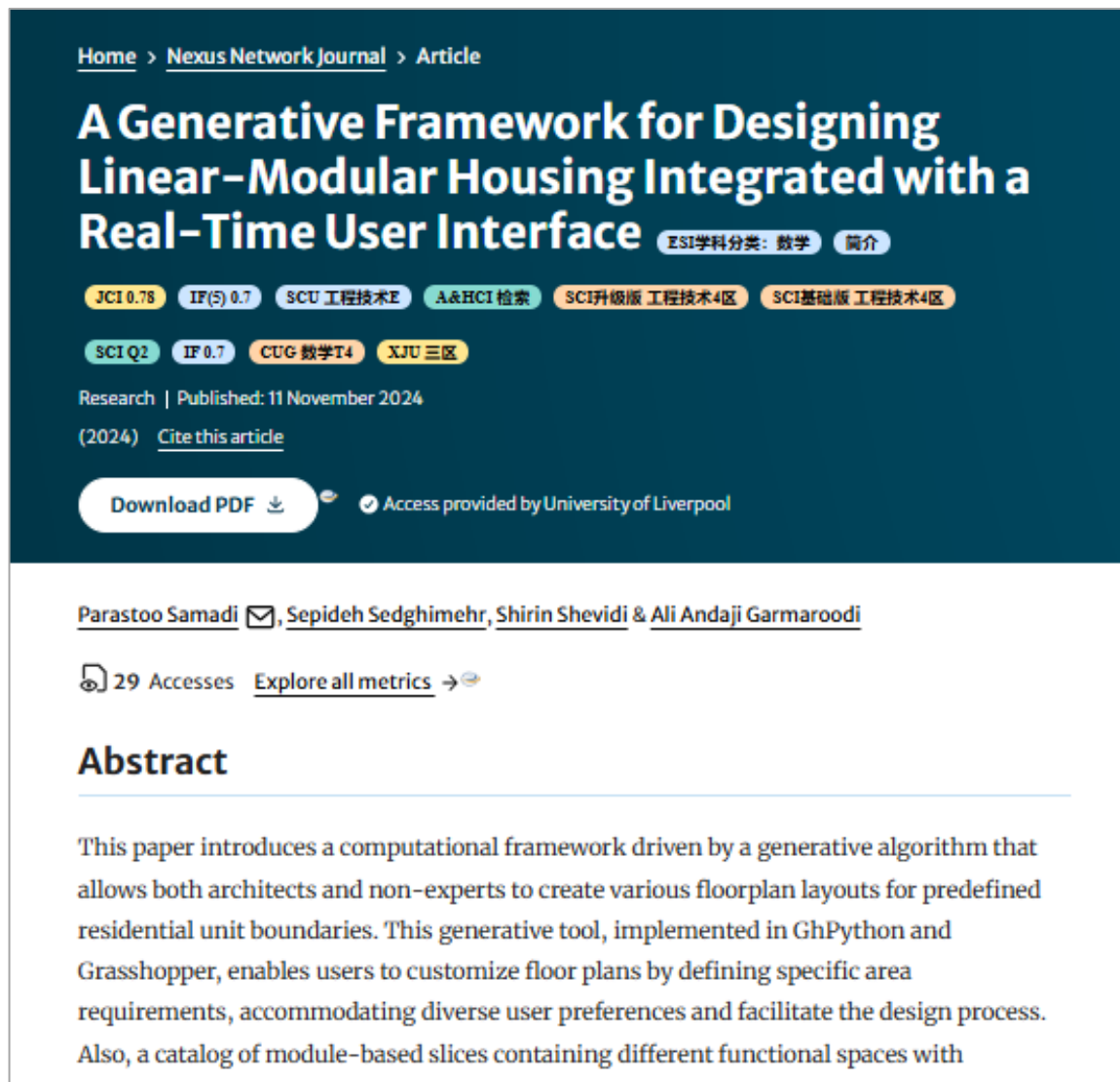
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Part 1: AI as a reading partner (2/3)

Frequent translations needed



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A Generative Framework for Designing Linear-Modular Housing Integrated with a Real-Time User Interface

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This paper introduces a computational framework driven by a generative algorithm that allows both architects and non-experts to create various floorplan layouts for predefined residential unit boundaries. This generative tool, implemented in GhPython and Grasshopper, enables users to customize floor plans by defining specific area requirements, accommodating diverse user preferences and facilitate the design process. Also, a catalog of module-based slices containing different functional spaces with

With [KimiExplorer](#) plugin



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解释

这段话介绍了一篇论文中提出的一个计算框架，这个框架是由一个生成算法驱动的，它允许建筑师和非专业人士为预定义的住宅单元边界创建各种平面图布局。这个生成工具在GhPython和Grasshopper中实现，使用户能够通过定义特定的面积要求来定制平面图，满足不同的用户偏好，并促进设计过程。此外，还设计了一个基于模块的切片目录，其中包含具有确定尺寸的不同功能空间，作为算法生成最终布局的参考。生成算法使用每个切片的数值数据，根据功能空间的邻接性和用户定义的参数产生平面图配置。算法的自下而上的方法意味着结果明显受到设计切片的影响。为了使用户更直观地理解住房布局，生成的平面图以布置好的3D模型的形式呈现，并归类在特定的

有什么问题尽管问我

Immediate translation and Q&A

Too-generic AI summary

The screenshot displays the Tencent Yuanbao AI interface. On the left is a sidebar with navigation options: '元宝' (Yuanbao), '发现' (Discover), '对话历史' (Conversation History), '今天' (Today), '无法生成, 因为提供的内容为无...' (Cannot generate, because the provided content is empty...), '20240224 xA... .pdf', '元宝', '对话式建筑架构构建研究' (Dialog-based architectural structure construction research), '20241127 Ne... .pdf', '元宝', '近30天' (Near 30 days), 'Summary of the paper', '20240216 Si... .pdf', '元宝', '深度阅读以下文档: 2024 Hasan' (Deep reading the following document: 2024 Hasan), '2024 Hasan a... .pdf', '元宝', and '查看全部对话 ->' (View all conversations ->). At the bottom of the sidebar is the user profile 'HenrikCLH'.

The main chat area shows a greeting from '元宝': 'Hi~ 我是元宝 你身边的智能助手, 可以为你答疑解惑、精读文档、尽情创作 让元宝助你轻松工作, 多点生活'. Below the chat is a toolbar with four buttons: 'AI搜索' (AI Search), '深度阅读' (Deep Reading), 'AI写作' (AI Writing), and 'AI画图' (AI Drawing). The '深度阅读' button is highlighted with a green box, and a green arrow points to it from the text 'Deep-reading function' above. Below the toolbar is an input field with the placeholder text '请您输入问题, shift+回车换行, 回车发送' (Please enter a question, shift+enter for a new line, enter to send). At the bottom of the page, there is a footer with the text: '所有内容均由AI生成仅供参考 | 请阅读并知悉《腾讯元宝用户服务协议》《腾讯元宝隐私政策》《开源条款》' (All content is generated by AI for reference only | Please read and be aware of the Tencent Yuanbao User Service Agreement, Tencent Yuanbao Privacy Policy, and Open Source Terms).

Too-generic AI summary

Summary of the paper
20240216 SiGraDi23... PDF 480.25KB

这篇论文探讨了将大型语言模型（LLM）作为建筑设计过程中的设计伙伴，而不仅仅是一个被动的问题回答机器。通过结合对话理论（CT）和LLM，提出了一种新的设计框架，旨在通过口头和非口头反馈与设计师进行持续的对话，并通过收集对话数据进行微调，逐步提高对话的有效性。

- 背景与研究框架：**
 - 当今AI的流行及其对设计学科的影响：强调了技术应用的现实世界背景的重要性，指出了计算技术的误用可能导致设计学科中的不期望后果。
 - 对话作为人机交互的重点：介绍了控制论的起源及其在人机交互中的应用，强调了对话在设计环境中的重要性。
 - 大型语言模型（LLMs）的潜力：讨论了LLMs在自然语言处理（NLP）中的应用及其通过迁移学习成为领域专家的潜力。
- 模拟场景：**
 - CT和LLM在设计场景中的整合：受Musicolour和URBAN5的启发，提出了将CT和LLM整合到建筑设计场景中的实验。
 - 方法和Rhino-Grasshopper实现：使用Rhino和Grasshopper进行模拟，收集设计行为和脑电波数据，并将其发送给LLM进行处理和反馈。
 - 步骤一：设置环境：包括安装脑电波传感器和初始算法设置。
 - 步骤二：收集数据：收集设计师的行为数据和心理状态数据。
 - 步骤三：将数据编译到LLM：将收集的数据编译成段提供LLM处理。
 - 步骤四：将响应转换为反馈：将LLM的响应转换为口头和非口头反馈。
- Mark I原型发现：**
 - 发现：口头反馈提供了直接明确的句子，但存在不一致性和干扰问题。
 - 反思和改进提议：提出了通过手动干预机制和强化学习来改进LLM的响应一致性和减少干扰。
- 讨论：**
 - 结论和贡献：展示了LLM在建筑设计场景中的实际应用潜力，但也指出了概念和技术上的挑战。
 - 未来研究方向：包括从一对一场景扩展到多对多场景，以及探索声音、温度等其他空间特质的反馈。
- 致谢：**

With Tencent Yuanbao



研究背景

- 研究问题：**这篇文章探讨了如何利用人工智能（AI）和扩散模型来增强建筑设计过程中的创造力与创新性。具体来说，研究了在建筑设计初期阶段，通过组合使用扩散模型和参数化建模来预测、开发和优化环保设计提案的可能性。
- 研究难点：**该问题的研究难点包括：如何有效地将AI生成的图像应用于建筑设计过程，如何在设计初期阶段实现气候适应性的设计提案，以及如何整合多学科的方法来应对这一挑战。
- 相关工作：**相关工作包括Neri Oxman提出的Krebs循环创造力理论，Generative Adversarial Networks（GANs）及其各种版本（如Progressive GANs, StyleGANs, Conditional GANs, Creative GANs等），以及最新的latent Diffusion Models（LDMs，如DALLE 2, MidJourney和Stable Diffusion）。

研究方法

这篇论文提出了一种名为“设计智能策略”的方法，用于解决建筑设计过程中创新和可持续设计解决方案的早期阶段问题。具体来说，

- 气候原型参数：**首先，研究建立了气候原型参数的参考表，包含选定的生物气候设计参数摘要。这些参数用于提示和图像生成、评估和优化阶段的参考。

Climate Archetype	East Coast	Temperate Climate	Hot and Dry Climate	Hot and Humid Climate
Climate	Continental	Continental or Humid	Continental	Humid
Latitude	30-45°N	30-45°N	20-30°N	10-20°N
Season	Summer	Summer	Summer	Summer
Temperature	High	High	High	High
Humidity	Low	Low	Low	High
Wind	Strong	Strong	Strong	Strong
Light	High	High	High	High
Soil	Loam	Loam	Loam	Loam
Water	Low	Low	Low	High
Vegetation	Deciduous	Deciduous	Deciduous	Deciduous
Architecture	High-rise	High-rise	High-rise	High-rise
Material	Concrete	Concrete	Concrete	Concrete
Structure	Rectangular	Rectangular	Rectangular	Rectangular
Color	White	White	White	White
Texture	Smooth	Smooth	Smooth	Smooth
Shape	Simple	Simple	Simple	Simple
Style	Modern	Modern	Modern	Modern
Function	Residential	Residential	Residential	Residential
Location	Urban	Urban	Urban	Urban
Time	Day	Day	Day	Day
Weather	Sunny	Sunny	Sunny	Sunny
Season	Summer	Summer	Summer	Summer
Climate	Continental	Continental	Continental	Continental
Latitude	30-45°N	30-45°N	20-30°N	10-20°N
Season	Summer	Summer	Summer	Summer
Temperature	High	High	High	High
Humidity	Low	Low	Low	High
Wind	Strong	Strong	Strong	Strong
Light	High	High	High	High
Soil	Loam	Loam	Loam	Loam
Water	Low	Low	Low	High
Vegetation	Deciduous	Deciduous	Deciduous	Deciduous
Architecture	High-rise	High-rise	High-rise	High-rise
Material	Concrete	Concrete	Concrete	Concrete
Structure	Rectangular	Rectangular	Rectangular	Rectangular
Color	White	White	White	White
Texture	Smooth	Smooth	Smooth	Smooth
Shape	Simple	Simple	Simple	Simple
Style	Modern	Modern	Modern	Modern
Function	Residential	Residential	Residential	Residential
Location	Urban	Urban	Urban	Urban
Time	Day	Day	Day	Day
Weather	Sunny	Sunny	Sunny	Sunny
Season	Summer	Summer	Summer	Summer
Climate	Continental	Continental	Continental	Continental
- 提示工程：**其次，研究进行了三个实验，探索了不同提示结构在扩散模型中生成的图像。每个实验包括两个生成步骤：第一步仅包含文本输入，第二步则提供输入图像（片段）和前一步的提示结构。实验结果表明，包含具体、具体词语和输入图像的提示结构效果最佳。
- 生成优化：**最后，研究使用RhinoCeros/Grasshopper算法建模工具，将选定的2D图像转换为参数化的3D模型进行优化。优化过程中定义了三个标准：开口的通风和形式比例、材料与资源可用性相关的材料消耗和房屋大小。

实验设计

实验设计包括以下三个阶段：

Deep-reading function
More specific for literature review

Part 2: AI as a poster and banner design partner

Software used:

AI-image generation, expansion: [Foocus](#) (locally installed)

AI-image enlargement: [Foocus](#) (locally installed) / [HiPictureAmplifier 嗨格式图片无损放大器](#) (paid)

Image editing: Adobe Illustrator / Photoshop



AI-generated



AI-expansion



AI-enlarge, edit

Part 2: AI as a poster and banner design partner

Software used:

AI-image generation, expansion: [Foocus](#) (locally installed)

AI-image enlargement: [Foocus](#) (locally installed) / [HiPictureAmplifier 嗨格式图片无损放大器](#) (paid)

Image editing: Adobe Illustrator / Photoshop



AI-generated



AI-expansion



AI-enlarge, edit

Part 2: AI as a poster and banner design partner with [Fooocus](#) (locally installed)



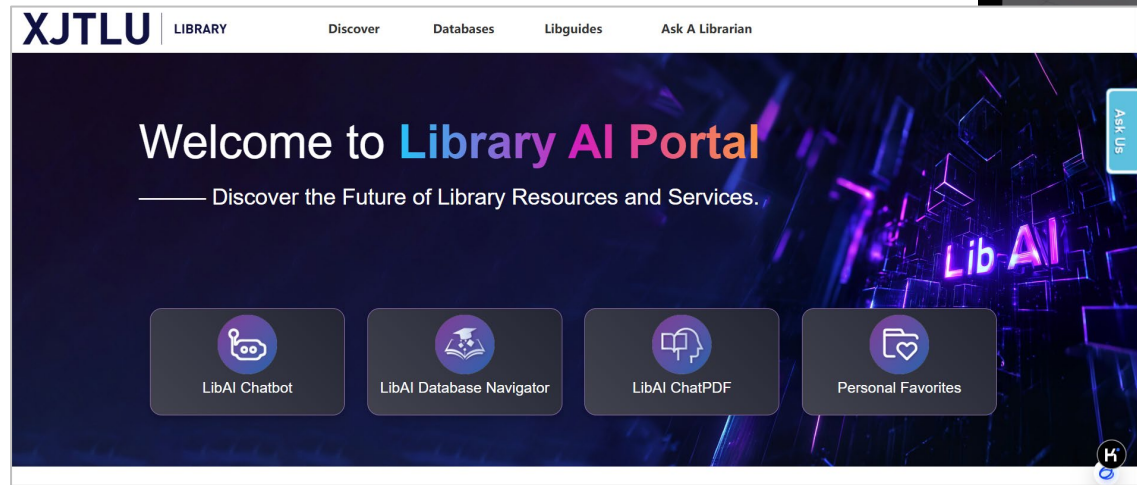
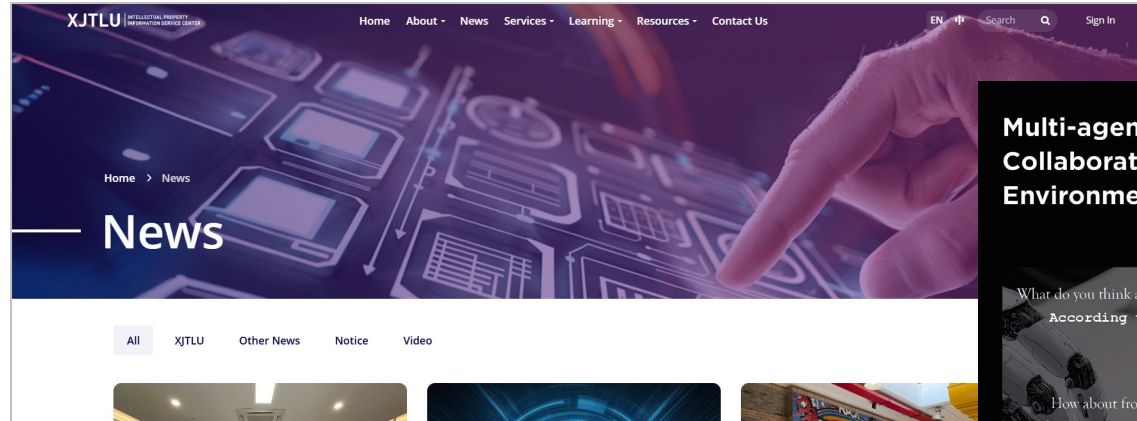
Type prompt here or paste parameters.

Generate

Input Image Enhance Advanced

Part 2: AI as a poster and banner design partner

fast poster and banner design



Summary

- **Part 1: AI as a reading partner**

- Aim: demonstrates how AI and other on-hand tools help in daily efficient literature searching and reading
 - a) **A browser plugin for searching and identifying journal levels**
 - Tool: [easyScholar](#)
 - b) **A browser plugin for real-time translating and Q&A abstract**
 - Tool: [Kimi Explorer](#)
 - Alternative: [Zhipu Extension](#)
 - c) **A web-based AI application for quick-reading literature**
 - Tool: [Tencent Yuanbao](#)(腾讯元宝)
 - Alternative: [ChatDoc](#)

- **Part 2: AI as a poster and banner design partner**

- Aim: demonstrate how AI and other tools help in fast poster and banner design
 - a) **AI image generation**
 - Tool: [Fooocus](#) (local)
 - Alternatives: [Zhipu](#), [HuluAI](#) (Paid)
 - b) **Image editing (expanding, enlarging)**
 - Tool: [Fooocus](#) (local), [HiPictureAmplifier](#), Adobe Illustrator
 - Alternatives: [InvokeAI](#) (local), Midjourney, DALLE-3, Adobe Photoshop
 - c) **Adding texts and touch-up**
 - Tool: Adobe Illustrator
 - Alternatives: Adobe Photoshop / any image editing software



An architectural rendering of a modern building complex. The building features multiple levels with large glass windows and balconies. In the foreground, there is a circular courtyard with a fountain and people walking. Several large, dark, geometric, cage-like structures are suspended in the air, some containing plants and people. The background shows a city skyline under a cloudy sky.

Thank you

Lok Hang Cheung (Henrik)



Archived: <https://henrikclh.com/2024/11/27/AI-Learning-Day.html>