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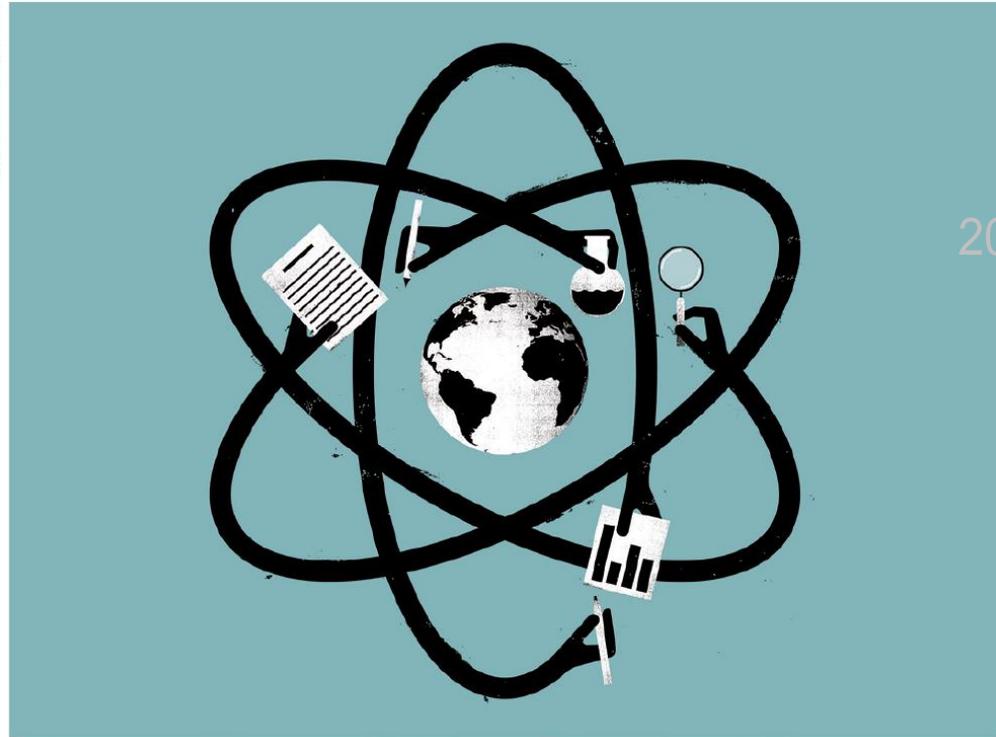
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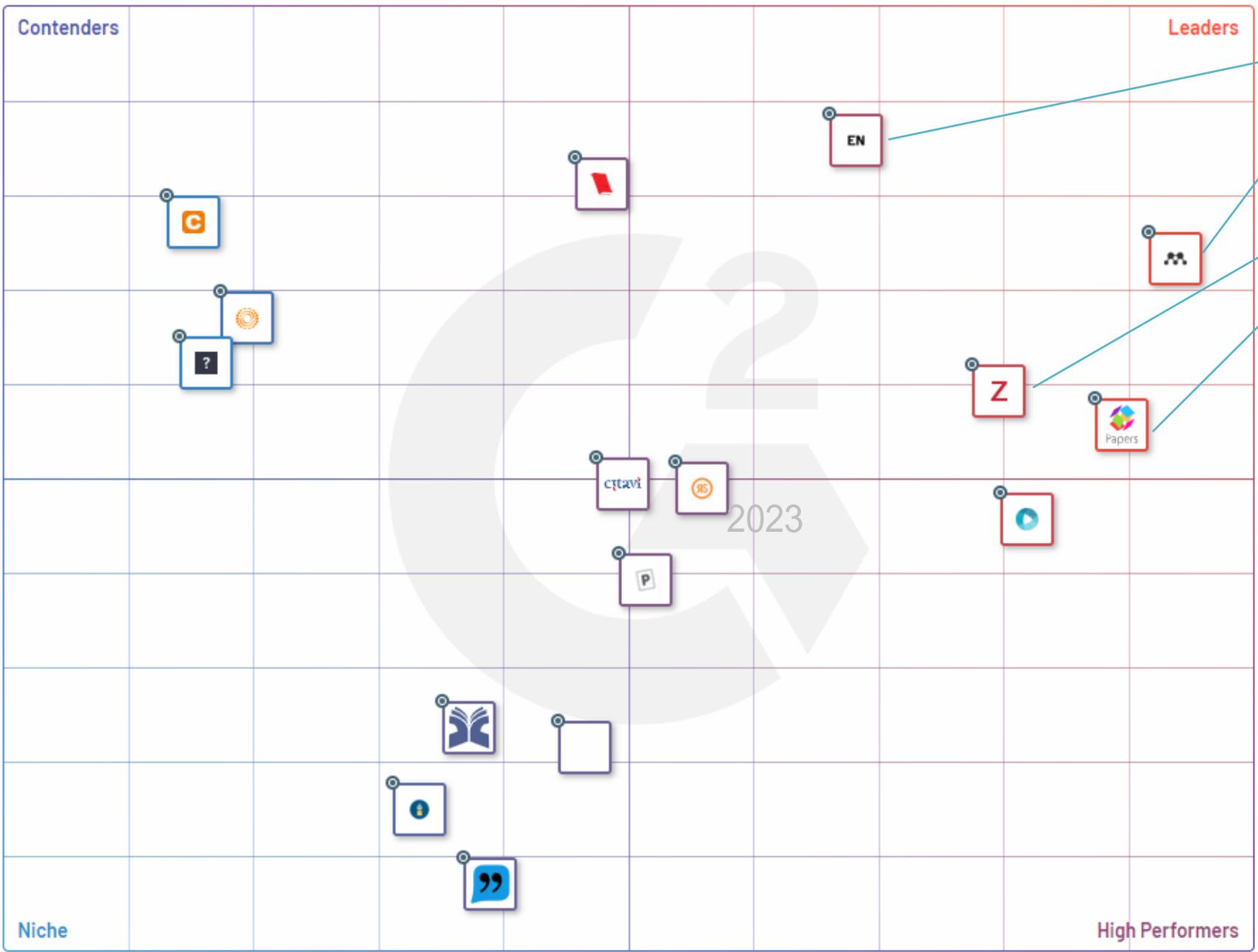
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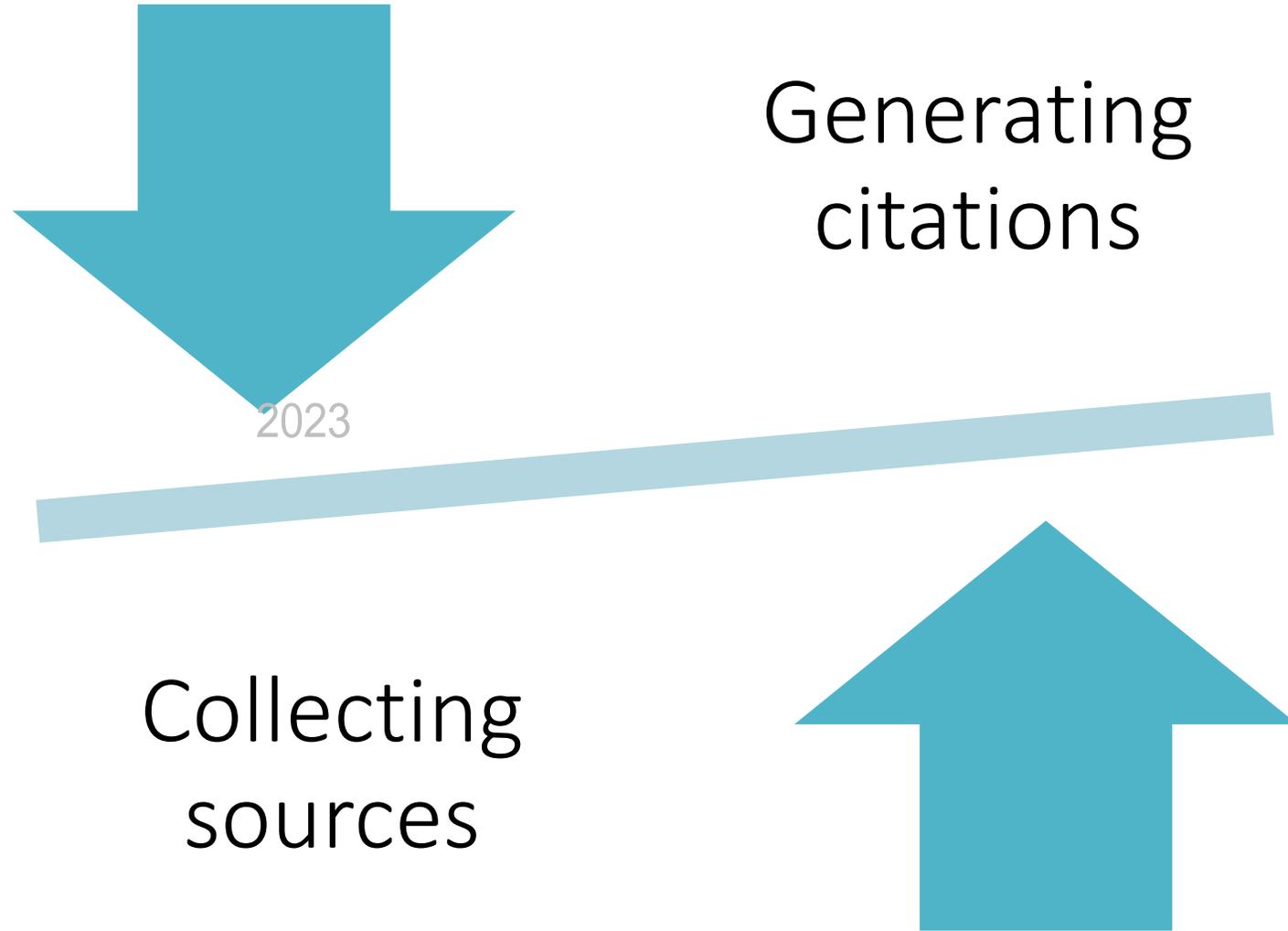


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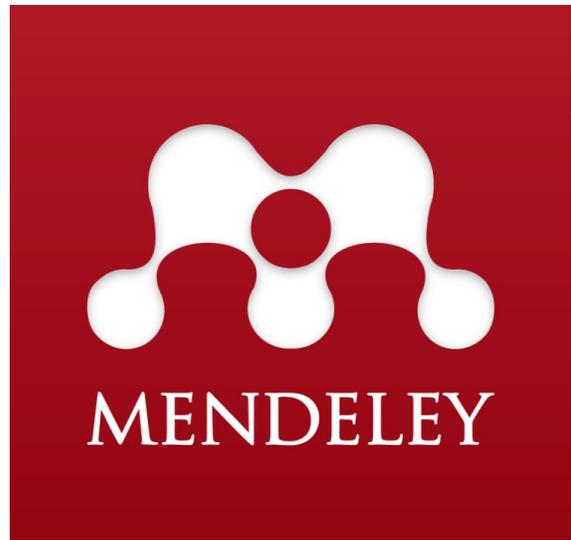
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Synthetic artificial intelligence using generative adversarial network for retinal imaging in detection of age-related macular degeneration

Z. Wang, G. Lim, W. Y. Ng, T. E. Tan, J. Lim, S. H. Lim, et al.

Front Med (Lausanne) 2023 Vol. 10 Pages 1184892

Accession Number: 37425325 PMID: PMC10324667 DOI: 10.3389/fmed.2023.1184892

<https://www.ncbi.nlm.nih.gov/pubmed/37425325>

INTRODUCTION: Age-related macular degeneration (AMD) is one of the leading causes of vision impairment globally and early detection is crucial to prevent vision loss. However, the screening of AMD is resource dependent and demands experienced healthcare providers. Recently, deep learning (DL) systems have shown the potential for effective detection of various eye diseases from retinal fundus images, but the development of such robust systems requires a large amount of datasets, which could be limited by prevalence of the disease and privacy of patient. As in the case of AMD, the advanced phenotype is often scarce for conducting DL analysis, which may be tackled via generating synthetic images using Generative Adversarial Networks (GANs). This study aims to develop GAN-synthesized fundus photos with AMD lesions, and to assess the realness of these images with an objective scale. METHODS: To build our GAN models,

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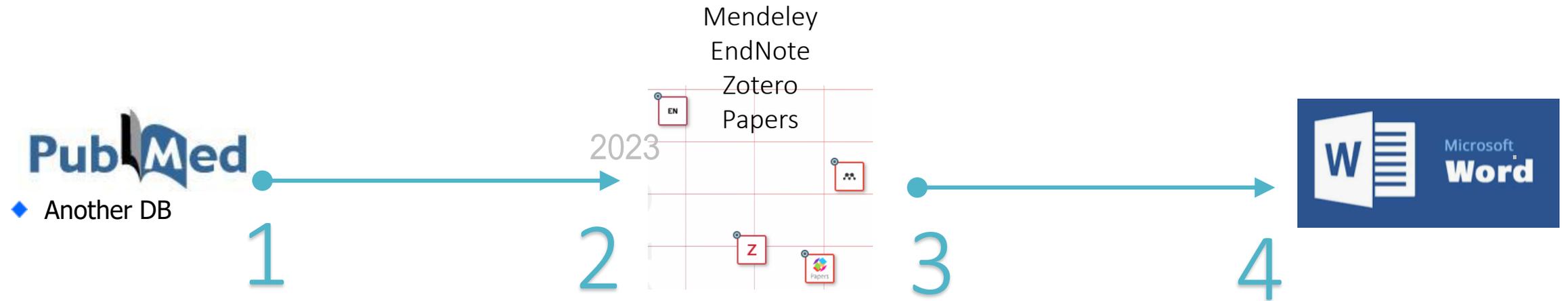
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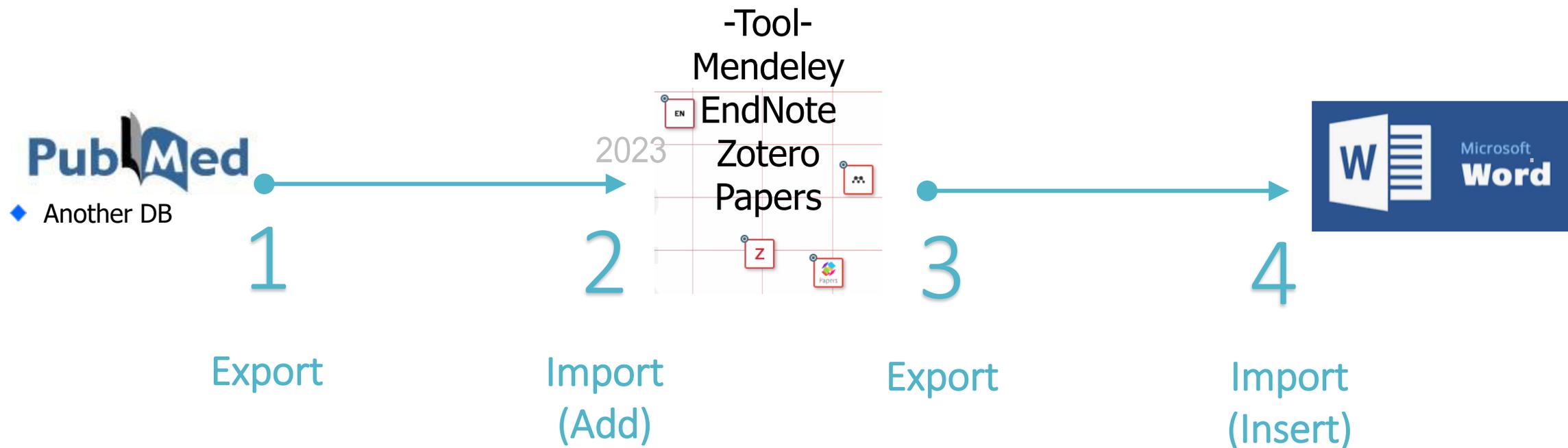
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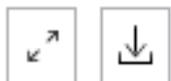
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AT, Verhoeff JJC, Maspero M.

102642. doi: 10.1016/j.ejmp.2023.102642. Online ahead of print.

PMID: 37473612

Deep learning (DL) has recently demonstrated the ability to **generate** accurate sCT from fixed MRI acquisitions. However, MRI protocols may change over time or differ between centres resulting in low-quality sCT due to poor model **generalisation**. PURPOSE: investigating ...

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Kelvin Hei-Yeung Chiu, Siddharth Sridhar & Kwok-Yung Yuen

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PERSPECTIVE | VOLUME 103, ISSUE 6, P967-979, SEPTEMBER 25, 2019

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Education in the era of **generative artificial intelligence** (AI): Understanding the potential benefits of ChatGPT in promoting teaching and learning

[D Baidoo-Anu](#), [L Owusu Ansah](#) - Available at SSRN 4337484, 2023 - papers.ssrn.com

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[G Cooper](#) - Journal of Science Education and Technology, 2023 - Springer

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Adverse Effects of Smartphone Addiction among University Students in South Korea: A Systematic Review

Chiara Achangwa¹, Hyun Sik Ryu², Jae Kwang Lee², Ju-Dong Jang¹

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PMID: 36611474 PMCID: PMC9818487 DOI: 10.3390/healthcare11010014

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Abstract

Background: Globally there has been an exponential increase in the penetration of smartphones among the youth population and smartphones have become indispensable in the daily lives of university students in South Korea. Several studies have associated the problematic use of

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Huange Liu, Kim Geok Soh et al. *Frontiers in psychology*, 13, 10 2022

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three categories. Finally, we mention the limitations of applying deep learning techniques to PET image generation and future prospects for PET image generation.

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BRIEF REPORT

Journal of Behavioral Addictions 4(3), pp. 200–205 (2015)
DOI: 10.1556/2006.4.2015.028

Relationship between smartphone addiction and physical activity in Chinese international students in Korea

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¹Department of Physiology, College of Medicine, Kyung Hee University, #1 Hoigi-dong, Dongdaemoon-gu, Seoul 130-701, Republic of Korea

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(Received: January 21, 2015; revised manuscript received: July 9, 2015; accepted: July 11, 2015)

Background and Aims: Excessive usage of smartphones may induce social problems, such as depression and impairment of social and emotional functioning. Moreover, its usage can impede physical activity, but the relationship between smartphone addiction and physical activity is obscure. Therefore, we examined the relationship and the impact of excessive smartphone use on physical activity. *Methods:* This study collected data through the structured questionnaire consisting of general characteristics, the number and hours of smartphone usage, and the Smartphone Addiction Proneness Scale (SAPS) from 110 Chinese international students in Korea. The body composition and physical activity, such as the total daily number of steps and consumed calories, were measured. *Results:* In this study, high-risk smartphone users showed less physical activity, such as the total number of steps taken and the average consumed calories per day. Moreover, their body composition, such as muscle mass and fat mass, was significantly different. Among these factors, the hours of smartphone use revealed the proportional relationship with smartphone addiction ($\beta = 0.209, p = 0.026$), while the average number of walking steps per day showed a significant reverse proportional tendency in participants with smartphone addiction ($\beta = -0.883, p < 0.001$). *Conclusions:* Participants with smartphone addiction were less likely to walk for each day. Namely, smartphone addiction may negatively influence physical health by reducing the amount of physical activity, such as walking, resulting in an increase of fat mass and a decrease of muscle mass associated with adverse health consequences.

Keywords: smartphone use, mobile phone addiction, daily walking, sedentary behaviors, physical health

INTRODUCTION

Many digital devices which have evolved from personal desktops, such as notebook computers, tablets, and other mobile devices, have become ubiquitous in today's world. Smartphones, in particular, have brought many changes to our daily lives since they provide various functions including a camera, multimedia player, phone, Internet browser, navigation system, e-mail, gaming device, and social networking services (SNS) all in one portable device (Boulos, Wheeler, Tavares & Jones, 2011; Kim, Lee, Lee, Nam & Chung, 2014; Mok et al., 2014). Many smartphone users are dependent on their devices using social networking

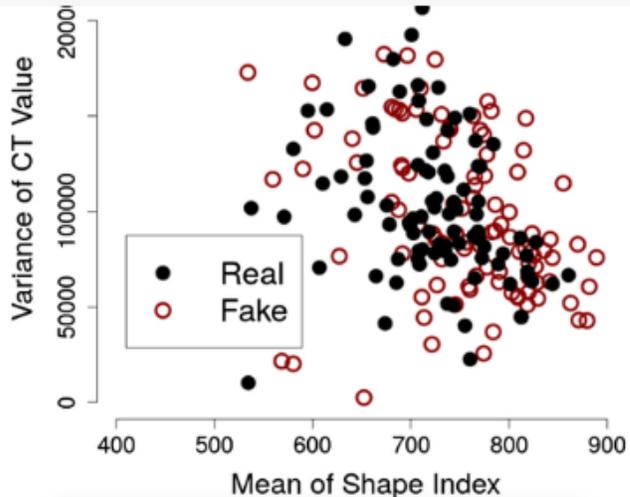
can decrease real-life social interaction, lower academic performance, and negatively affect relationships. Moreover, excessive smartphone use can give rise to adverse effects similar to those caused by problematic Internet use, including comorbid psychiatric disorders and the impairment of social and emotional functioning due to the portability factor that allows for real-time and personalized Internet services anywhere (Boulos et al., 2011; Ha et al., 2006; Shapira et al., 2003). Excessive smartphone use can also disrupt physical activity (Lepp, Barkley, Sanders, Rebold & Gates, 2013). Functions such as calling, sending and receiving text messages, updating social networking sites, and browsing the Internet have historically been designed

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the discrimination performance was evaluated by use of ROC analysis, where the confidence levels recorded by each reader were analyzed by use of the pROC package (version 1.16.2) [28] in R (version 3.6.3) [29]. The ROC curves were generated by use of binomial fitting. The 95% confidence intervals were computed by use of bootstrap with 1000 replicates. The difference of the AUC value with 50% (the level of not being able to tell the difference between a real polyp and a synthetic polyp) was tested by use of a bootstrap test with 1000 replicates, where $p < 0.05$ indicated a statistically significant difference.

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Polyp classification study

We trained our previously developed 3D DenseNet CNN [30] to detect polyps with five data augmentation approaches: baseline augmentation, nonlinear augmentation, 3D GAN with baseline augmentation, 3D Glow with baseline augmentation and 3D Glow with nonlinear augmentation. The baseline augmentation included random flipping and/or 1-3-times zooming of the VOIs. The nonlinear augmentation included the baseline augmentation plus 3D shifting, 3D rotation and/or application of Gaussian noise to the CT values of the VOIs. The GAN-based augmentation was based on our previously developed 3D self-attention GAN method for generating synthetic 3D polyp VOIs [15].

For the training of the 3D DenseNet, 200 VOIs of real polyps and normal anatomy were extracted from the development dataset as described in section "Extraction of VOIs". In the baseline and nonlinear augmentation approaches, the

정보 태그 연관

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 - ▶ 저자 Näppi, Janne J.
 - ▶ 저자 Ryu, Yasuji
 - ▶ 저자 Watari, Chinatsu
 - ▶ 저자 Kamiya, Tohru
 - ▶ 저자 Yoshida, Hiroyuki
- 요약 PURPOSE: Deep learning can be used for improving the performance of computer-aided detection (CADe) in various medical imaging tasks. However, in computed tomographic (CT) colonography, the performance is limited by the relatively small size and the variety of the available training datasets. Our purpose in this study was to develop and evaluate a flow-based generative model for performing 3D data augmentation of colorectal polyps for effective training of deep learning in CADe for CT colonography. METHODS: We developed a 3D-convolutional neural network (3D CNN) based on a flow-based generative model (3D Glow) for generating synthetic volumes of interest (VOIs) that has characteristics similar to those of the VOIs of its training

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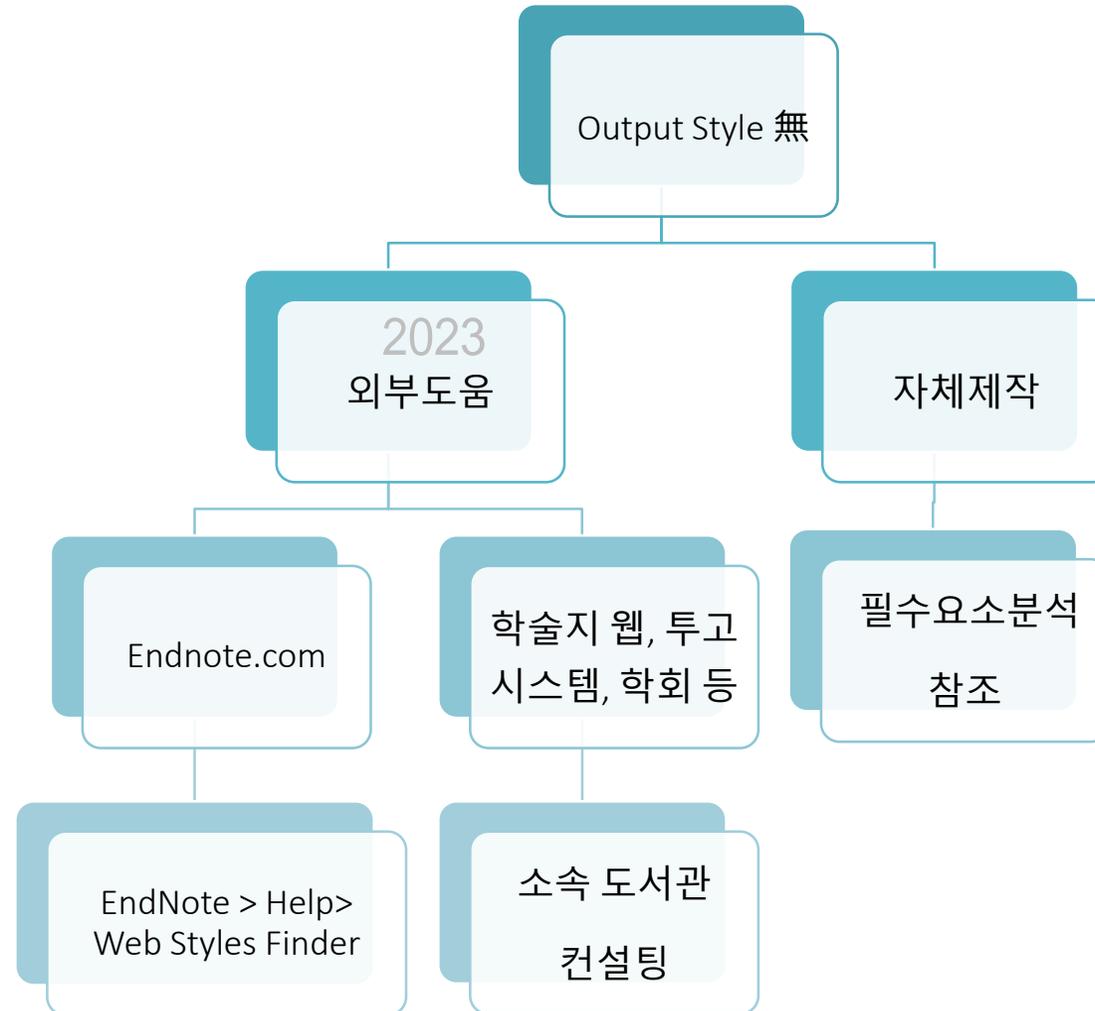
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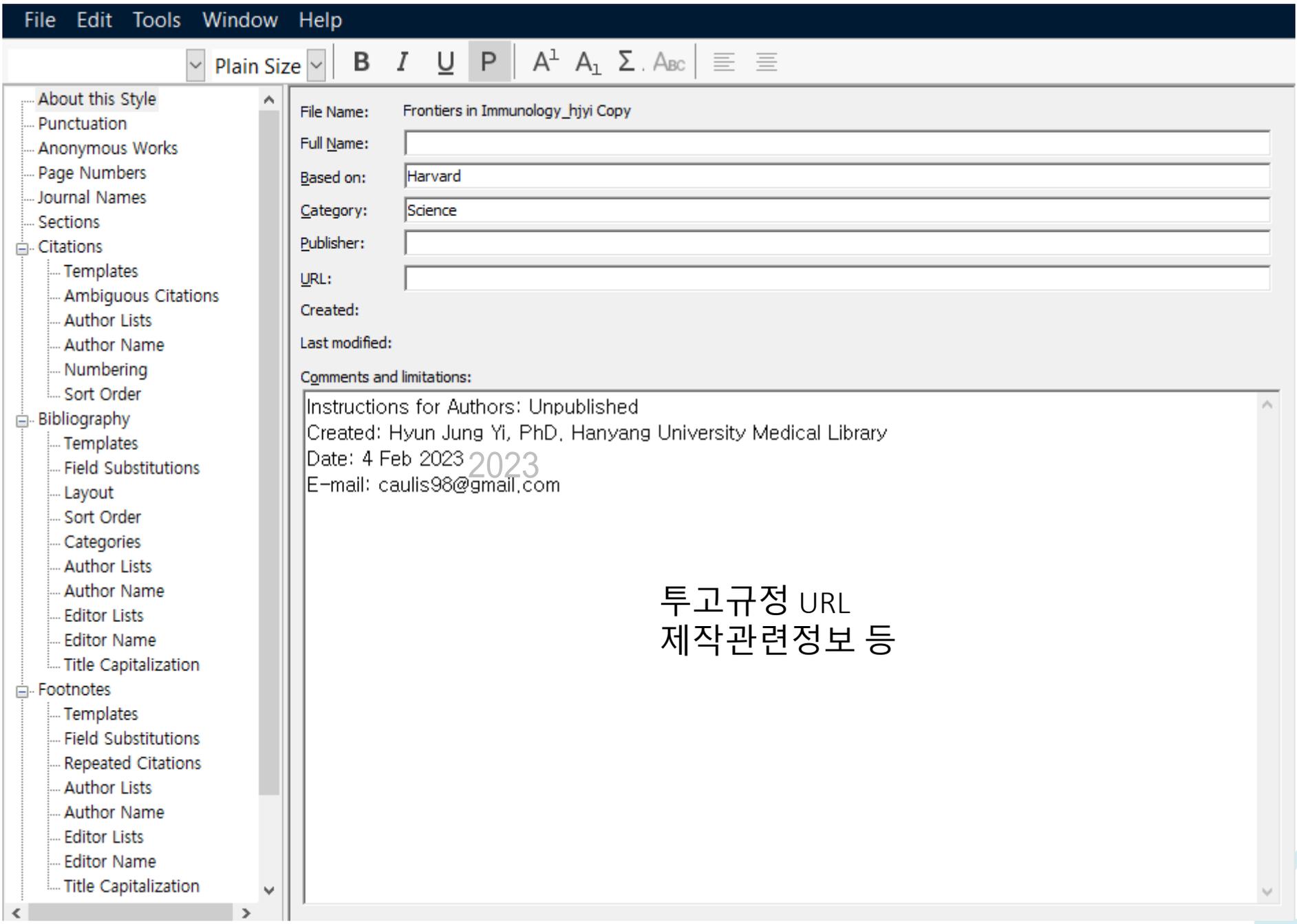
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