

Copyright infringement

- A clean self-diverting acid for carbonate reservoir in deep wells at high temperatures and its performance evaluation
- Unmet need for family planning and associated factors among reproductive age women working in Bole Lemi industrial park, Addis Ababa, Ethiopia 2024: an institution based cross-sectional study
- Perceived Social Support Among Parents and Exploration of Challenges Faced by Single Mothers of Children with Neurodevelopmental Disorders-A Mixed Method Study
- Transcriptome-Wide Sequencing Identifies Non-Coding RNAs and Their Competing Endogenous RNA Networks During the Stages of pPGCLCs-Induced Differentiation
- Leading developments in basic research on aspergillosis and mucormycosis
- Physiological stress tolerance responses of the dung decomposer fungus *Mucor circinelloides*
- Bone void filler materials for augmentation in comminuted fractures: a comprehensive review
- Patent Rights and Infringement Claims in Spine Surgery in the United States: A Primer for Neurosurgeons

Copyright infringement occurs when someone uses, reproduces, distributes, or displays copyrighted material without the permission of the copyright owner, in a way that violates the exclusive rights granted to the creator. Here are some key points regarding copyright infringement:

1. What Constitutes Copyright Infringement? - Unauthorized Use: Copying or distributing copyrighted works without permission. - **Public Performance or Display:** Showing copyrighted content (movies, music, books, software) in a way that violates the owner's rights. - **Derivative Works:** Creating modifications, adaptations, or derivative works without permission. - **Commercial Exploitation:** Using copyrighted material for profit without proper licensing.

2. Examples of Copyright Infringement - Downloading or sharing movies, music, or books illegally. - Using copyrighted images or music in YouTube videos without permission. - Copy-pasting text from books, articles, or research papers into a published work without citation or authorization. - Selling merchandise with copyrighted logos or characters without a license.

3. Consequences of Copyright Infringement - Legal Actions: The copyright owner can sue for damages. - **Fines & Penalties:** Courts can impose heavy financial penalties. - **Takedown Notices (DMCA in the U.S.):** Websites hosting infringing content may receive a Digital Millennium Copyright Act (DMCA) takedown request. - **Account Suspension:** Platforms like YouTube, Instagram, or Facebook can suspend or terminate accounts involved in infringement.

4. Defenses Against Copyright Infringement - Fair Use (U.S.) / Fair Dealing (UK, Canada, Australia): Limited use of copyrighted material for commentary, criticism, news reporting, teaching, or research. - **Creative Commons & Open Licenses:** Using content with proper licensing. - **Public Domain:** Works whose copyrights have expired or were never copyrighted.

5. How to Avoid Copyright Infringement - Use royalty-free or Creative Commons-licensed content. - Get explicit permission from the copyright owner. - Credit the source when required. - Create original content instead of copying others.

Images are extensively utilized in educational materials due to their efficacy in conveying complex

concepts. However, unauthorized use of images frequently results in legal issues related to copyright infringement. To mitigate this problem, we introduce a dual-module system specifically designed for educators. The first module, a copyright infringement detection system, employs deep learning techniques to verify the copyright status of images. It utilizes a Convolutional Variational Autoencoder (CVAE) model to extract significant features from copyrighted images and compares them against user-provided images. If infringement is detected, the second module, an image retrieval system, recommends alternative copyright-free images using a Vision Transformer (ViT)-based hashing model. Evaluation on benchmark datasets demonstrates the system's effectiveness, achieving a mean Average Precision (mAP) of 0.812 on the Flickr25k dataset. Additionally, a user study involving 65 teachers indicates high satisfaction levels, particularly in addressing copyright concerns and ease of use. Our system significantly aids educators in creating educational materials that comply with copyright regulations ¹⁾

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Kim Y, Kim S, Min S, Han Y, Lee O, Kim W. A Dual-Module System for Copyright-Free Image Recommendation and Infringement Detection in Educational Materials. J Imaging. 2024 Nov 1;10(11):277. doi: 10.3390/jimaging10110277. PMID: 39590741; PMCID: PMC11595497.

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