

Artificial intelligence in scientific research and writing: appropriate versus misuse

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Artificial intelligence (AI) has become an increasingly important tool in all aspects of scientific research. Even though many AI tools such as machine learning, deep learning, and natural language processing can revolutionize how scientific research and writing is done, there are many ethical aspects to consider such as privacy, bias, and transparency in using them. The objectives of this presentation will be to differentiate appropriate versus inappropriate AI use; apply multiple journal policy requirements; identify domain-specific pitfalls; and evaluate ethical risks in research methods and writing. Specific examples will be provided in the field of environmental sciences. Appropriate AI tools used in research and scientific writing will also be discussed.