BG Pulse Journal USA
ISSN:1947-2536 http://www.bgpulseusa.com/index.php/bg
BG PULSE JOURNAL

THE HISTORY OF ARTIFICIAL INTELLIGENCE DEVELOPMENT AND ITS NEOSEMANTIC IMPORTANCE IN GRAPHIC DESIGN AND PHOTOGRAPHY

Odilova Fotima Farxod kizi
University of Economics and Pedagogy,
Assistant Lecturer Uzbekistan
https://doi.org/10.5281/zenodo.20340401

ANNOTATION: This article is dedicated to the history of the development of artificial intelligence and its neosemantic integration into various fields such as graphic design and photography. Initially, it discusses the early stages of artificial intelligence, starting with Alan Turing and his famous Turing Test. Then, it examines how artificial intelligence technologies have rapidly developed since the 2000s, becoming more advanced through innovative approaches. The article also provides detailed information on the entry of artificial intelligence into graphic design and photography. This article serves as a useful resource for those interested in the current and future developments of artificial intelligence.

KEY WORDS: artificial intelligence, neosemantics, term, integration, development of ai, design, photography, innovative technologies.

ANNOTATSIYA: Mazkur maqola sun’iy intellekt rivojlanishining tarixiga va uning grafik dizayn va fotografiya kabi turli tarmoqlarga neosemantik kirib borishiga bag‘ishlangan. Maqolada avvalo sun'iy intellektning dastlabki davrlari, ya’ni Alan Turing va uning mashhur Turing testi orqali boshlanadigan rivojlanish bosqichlari haqida so‘z yuritiladi. Keyin, sun’iy intellekt texnologiyalarining 2000 - yillardan keyin qanday tezkor rivojlanib, ilg'or yondoshuvlar orqaliyanada kuchayganligi ko'rib chiqiladi. Maqolada, shuningdek, sun'iy intellektning grafik dizayn va fotografiya sohalariga kirib borishi haqida batafsil ma’lumot beriladi. Bu maqola, sun’iy intellektning hozirgi va kelajakdagi rivojlanishiga qiziqish bildirganlar uchun foydali manba bo’lib xizmat qiladi.

KALIT SO'ZLAR: sun'iy intellekt,neosemantik, atama, integratsiya, AI rivojlanishi, dizayn, fotografiya, innovatsion texnologiyalar.

АННОТАЦИЯ: Данная статья посвящена истории развития искусственного интеллекта и его неосемантического интеграции в различные области, такие как графический дизайн и фотография. В статье впервые обсуждаются ранние этапы искусственного интеллекта, то есть этапыразвития, начиная с Алана Тьюринга и его знаменитого теста Тьюринга. Затемрассматривается, как технологии искусственного интеллекта быстро развивались с 2000х годов и стали более мощными благодаря передовым подходам. В статье также подробно описывается проникновение искусственного интеллекта в графический дизайн и фотографию. Эта статья послужит полезным ресурсом для тех, кто интересуется текущим и будущим развитием искусственного интеллекта.

КЛЮЧЕВЫЕ СЛОВА: искусственный интеллект,неосемантика, термин, интеграция, развитие ИИ, дизайн, фотография, инновационные технологии.

INTRODUCTION

The term artificial intelligence has become a widespread and relevant concept today. Derived from the English phrase "artificial intelligence," it refers to a field of science and technology aimed at creating machines capable of mimicking human intelligence. In recent years, artificial

intelligence technologies have developed rapidly, leading to revolutionary changes in various sectors. Initially created for computational and logical processes, today it is also manifesting significantly in art, design, and photography.

Historical Context

In 1921, Czech playwright Karel Čapek coined the term "robot" in his science fiction play "R.U.R. (Rossum's Universal Robots)." In this play, Čapek imagines a future where robots become laborers for humans. The play explores themes such as the rebellion of robots and ultimately the destruction of the human race, prompting reflections on what it means to be human and the purpose of human life. Since then, people have embraced the idea of robots, incorporating it into their research, art, and inventions.

Initial Development Stages

The history of artificial intelligence technology dates back to the mid-20th century and was initially developed based on scientific and theoretical foundations. In 1950, Alan Turing published an article titled "Computing Machinery and Intelligence," where he theoretically substantiated artificial intelligence. Through the Turing Test, he proposed a method for evaluating a machine's ability to think like a human.

Development After the 2000s

Starting from the 2000s, artificial intelligence technologies began to develop at a rapid pace. New approaches such as machine learning and deep learning allowed artificial intelligence programs to become more powerful and capable of performing complex tasks. During this period, we can observe the entry of artificial intelligence into graphic design and photography.

Application of Artificial Intelligence in Graphic Design and Photography

In graphic design, artificial intelligence has enabled automatic design creation. For instance, software like Adobe Photoshop utilizes artificial intelligence algorithms to automatically edit images, optimize colors, and suggest compositions. In photography, artificial intelligence facilitates image recognition, object detection, and automatic retouching. These processes simplify professional photography tasks and save time.

CONCLUSION

The development of artificial intelligence is not only leading to technological innovations but also creating new opportunities in art and design fields. This article aims to deepen the understanding of artificial intelligence's integration into graphic design and photography and serves as a valuable resource for those interested in exploring new approaches in these areas.

REFERENCES

1. Resolution of the President of the Republic of Uzbekistan “On approval of the Strategy for the development of artificial intelligence technologies until 2030”, October 14, 2024 No. PQ-358

2. "METHODICALS OF USING ARTIFICIAL INTELLIGENCE IN LESSONS" Mamatkarimova Gulmira Khabibullayevna

3. Lutfillayev M.Kh.. Information technologies. - Tashkent 2019: UzMU 110 p.

4. T.A. Khojakulov, N.T. Malikova. Artificial intelligence (Textbook). –T.: “Innovative development publishing house - printing house”, 2020.-216 p.

5. Filipova I.A. Legal regulation of artificial intelligence: a course of lectures. Translated from Russian Z.O. Kuvandikov, editor-in-chief A.R. Akhatov - Samarkand: Samarkand State University, 2022. -179 pages.

Beijing Consensus on Artificial Intelligence and Education UNESCO International Conference on Artificial Intelligence and Education, Planning Education in the AI Era: Lead the Leap 2019.

6.Kholmanova Zulxumor ARTIFICIAL INTELLIGENCE: BORIS “COMPUTER LINGUISTICS: PROBLEMS, SOLUTIONS, PROSPECTS” International Scientific and Practical Conference Vol. 1 No. 01 (2023) Doctor of Philology, Professor, Professor of Tashkent State Technical University E-mail:zulxumor-uzmu@mail.ru

7. R.H.Ayupov, G.R. Baltabaeva. ARTIFICIAL INTELLIGENCE: ChatGPT AND ITS POSSIBILITIES. Tashkent: UzDJTU-TDPU-TMI, 2023. -75 pages.