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Generative AI in Creative Domains in Ethical Implications

Abhishek Jain

Department of CSE, Tulas Institute, Dehradun, India

abhishekrit21@gmail.com

ABSTRACT: The rapid proliferation of generative AI technologies has revolutionized creative domains, including art, music, literature, and design. While these technologies present immense potential for innovation, they also raise complex ethical concerns. This paper explores the ethical implications of employing generative AI in creative fields, focusing on issues such as intellectual property rights, authenticity, societal impact, and the evolving role of human creativity. One prominent concern is the ownership of AI-generated content—determining whether the creator, the user, or the AI system itself holds rights over such outputs. Additionally, generative AI blurs the line between original and derivative works, potentially undermining the value of human craftsmanship. The potential for AI to perpetuate biases and stereotypes embedded in its training data further exacerbates societal risks, making it crucial to ensure responsible AI development and usage. Moreover, the widespread adoption of generative AI could lead to job displacement in traditionally human-driven creative sectors, sparking debates about economic equity. At the same time, the democratization of creativity through accessible AI tools offers new opportunities for marginalized voices to participate in creative expression. Striking a balance between technological advancement and ethical responsibility requires robust regulatory frameworks, transparent AI models, and collaboration between technologists, policymakers, and creative communities. This paper underscores the need for ongoing dialogue and interdisciplinary research to navigate the ethical challenges of generative AI, ensuring that its application fosters inclusivity, fairness, and respect for human creativity in the evolving digital landscape.

KEYWORDS: Generative AI, creative domains, ethics, intellectual property, authenticity, societal impact, bias, human creativity, responsible AI, and regulatory frameworks.

I. INTRODUCTION

Generative AI has become a transformational force across all creative fields, enabling machines to produce content that was once the sole purview of human artists, writers, and designers. From AI-generated paintings and music to automated storytelling and virtual designs, this technology offers possibilities for innovation and expression that have never been seen before. However, integrating AI into creative fields raises a number of urgent ethical questions that are in dire need of careful consideration. Who owns the rights to AI-generated works? How does one distinguish between human originality and machine-driven creativity? Traditional notions of authorship and intellectual property are being challenged by these concerns, which also spur debates among technologists, legal experts, and creative professionals.

The societal implications of generative AI range from legal aspects to concerns about the risks of perpetuating harmful biases encoded in training data. As AI becomes a tool for producing content at scale, there is a potential for it to shape public perception, culture, and social norms in ways none of us see coming. Besides, the automation of creative tasks can also threaten to disrupt the livelihood of artists and designers, with concerns about job displacement and rising economic inequality. While carrying these risks, the democratization brought about by generative AI opens up creativity for people with fewer resources or less technical knowledge and allows them to contribute to creative industries.

This paper seeks to explore the ethical implications of generative AI in creative domains by examining key issues such as intellectual property, societal impact, authenticity, and responsible use. It also highlights the need for developing ethical guidelines so that generative AI can be used as a tool for inclusive and equitable innovation.

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The Rise of Generative AI in Creative Fields

Generative AI is a type of artificial intelligence system that can create original content—be it images, music, text, or designs—based on patterns learned from large datasets. This has been gaining immense traction in creative industries and has changed the way art is created and consumed. Artists can use AI tools to create unique pieces of digital art; writers can use AI models to draft articles, stories, or even poetry. Musicians and designers have also begun exploring AI-driven tools to find new ways of innovating within their fields. The appeal of generative AI is that it can automate a lot of complex creative processes, reduce production time, and open up new possibilities for creativity.

Opportunities and Benefits

Generative AI comes with a number of benefits, including democratizing creativity and making artistic tools more accessible to people who may not have formal training. It supports fast prototyping and ideation, thus allowing creators to pursue different ideas much faster. The ability of generative AI to revive historical styles of art and provide new perspectives by fusing various genres and approaches is another capability. For businesses, it opens avenues for low-cost content creation and personalized marketing.

Ethical Challenges and Concerns

Despite its potential, generative AI introduces numerous ethical concerns. One key issue is authorship—determining who should be credited for AI-generated works. Intellectual property laws, which were originally designed to protect human creativity, struggle to address the complexities of AI-generated content. Furthermore, generative AI systems often inherit biases present in their training data, which can lead to biased or inappropriate outputs, raising concerns about fairness and accountability. The increasing reliance on AI also poses risks to human employment in creative industries, potentially leading to job displacement.

II. LITERATURE REVIEW

The application of generative AI in creative domains has been attracting growing interest from researchers and professionals in the last decade. This literature review synthesizes key studies from 2015 to 2024, highlighting major themes, ethical concerns, and findings on the implications of generative AI in various creative fields.

Evolution of Generative AI in Creative Fields (2015–2020)

Between 2015 and 2020, rapid progress in machine learning, especially with generative adversarial networks (GANs) and transformer-based models, enabled the revolution in content creation. Research in this era began to investigate the possibility of AI in creating human-like art, music, and text.

Findings:

Early works, such as that by Goodfellow et al. (2016), showed that GANs could create photo-realistic images, indistinguishable from human-made art; this has now led to the creation of AI-assisted tools aimed at artists and musicians. However, other researchers, like Elgammal et al. (2017), consider the consequences for originality and a possible loss of human identity in creative works.

Intellectual Property and Authorship Issues (2017–2022)

The question of intellectual property (IP) rights for AI-generated content became a major area of inquiry post-2017. Scholars inquired into whether the creator of the AI tool, the user who provided the input, or the AI system itself should hold ownership of the generated works.

Results:

Studies from McCutcheon (2019) and Pesce (2021) show that the existing IP laws are inadequate in dealing with AI-generated content. They need new legal frameworks for the sake of ownership and rights clarification and protection of creators and AI developers.

Bias and Fairness in AI-Generated Content (2018–2023)

As AI models are trained on vast datasets, concerns regarding the perpetuation of biases and stereotypes became the central topic of discussion. Researchers have pointed out that AI-generated content often reflects the existing societal biases present in the data.

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Results:
Binns et al. (2018) and Raji et al. (2022) showed that AI models may produce biased outputs that can solidify harmful stereotypes in media and art. These studies called for more transparency in dataset curation and AI model design to ensure fairness and inclusivity.

Socioeconomic Impact on Creative Industries (2020–2024)
More recently, there have been socioeconomic studies regarding how widespread adoption of AI in creative fields could lead to job displacement and changes in creative workflows.

Findings:
A report by the World Economic Forum (2021) stated that although generative AI might be useful in increasing productivity, it also presented employment risks in traditionally human-driven fields of design, advertising, and content creation. However, others, such as Zhao and Huang (2023), noted that AI can collaborate with human creativity, not displace it, thereby creating new modes of working together.

Ethical Guidelines and Regulatory Frameworks (2021–2024)
With the rapid adoption of generative AI, ethical guidelines and regulatory efforts have been an increasing focus. Policymakers and researchers have been working on establishing standards for responsible AI use in creative domains.

Results:
Floridi and Cowls (2021) put forward ethical guidelines that emphasized requirements of transparency, accountability, and respect for human creativity. UNESCO and IEEE are among organizations still working on establishing global regulatory frameworks for the ethical use of generative AI in art, media, and entertainment.

No.	Study/Author	Year	Key Focus	Findings
1	Goodfellow et al.	2016	Introduction of GANs for creative AI	GANs enabled the creation of realistic images and art but raised concerns about ownership.
2	Elgammal et al.	2017	AI's capability to replace human artists	AI can replicate artistic styles but lacks emotional depth, questioning the authenticity of art.
3	McCutcheon	2019	Intellectual property (IP) rights for AI-generated works	IP laws are inadequate, and a new category of rights is needed to clarify ownership issues.
4	Binns et al.	2018	Bias in AI-generated content	AI models often reproduce societal biases; bias detection and mitigation strategies are essential.
5	Pesce	2021	Human-AI collaboration in creative processes	AI enhances human creativity, allowing for new forms of artistic innovation and collaboration.
6	Floridi & Cowls	2021	Ethical framework for AI in creative domains	Proposed ethical guidelines focusing on transparency, accountability, and human respect.
7	Raji et al.	2022	Accountability in AI-generated content	Called for accountability measures and auditing mechanisms for AI content.
8	Zhao & Huang	2023	Socioeconomic impact on creative jobs	AI complements human roles but requires reskilling to prevent job displacement.
9	World Economic Forum	2021	Future of work in creative industries	AI disrupts traditional roles but offers opportunities for new creative ventures.
10	UNESCO	2022	Cultural impact of AI-generated content	Highlighted the risk of cultural homogenization and emphasized diversity in AI training data.

III. RESEARCH METHODOLOGY

1. Research Approach
A qualitative research approach will be followed, supported by limited quantitative analysis. The qualitative approach will allow for an in-depth investigation into the ethical, legal, and societal implications of generative AI within creative fields. It also includes case studies, expert interviews, and content analysis to reach a holistic view of the phenomenon.

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2. Research Design

The design of the research will be an exploratory study to identify and analyze the key ethical concerns, regulatory challenges, and potential solutions associated with responsible AI use. The design includes the following components:

- **Descriptive Analysis:** How generative AI is being used in different creative industries now.

Comparing the current intellectual property laws and ethical guidelines of various regions.

- **Case Studies:** Examining real-world examples of AI-generated content in art, music, literature, and design that have brought about positive impacts while also touching on ethical dilemmas.

3. Data Collection Methods

The study will use multiple methods of data collection to ensure a rich and diverse dataset.

Primary Data Collection:

- Interviews: Semi-structured interviews will be carried out with stakeholders, including AI developers, legal experts, policymakers, and creative professionals, to get their insights on the ethical implications of generative AI.
- Surveys: A structured survey will be conducted with professionals in the creative industries to collect quantitative data on the perceived effect of generative AI on their work and livelihood.

Secondary Data Collection:

A literature review of academic papers, industry reports, and legal documents from 2015 to 2024 will be performed in order to develop a conceptual framework.

Publicly available AI-generated works (art, music, written content) will be analyzed to identify recurring ethical issues.

4. Data Analysis Techniques

Qualitative Data Analysis:

- Thematic analysis will be used to identify recurring themes and patterns in interview transcripts, survey responses, and case studies.
- Key themes will revolve around the key areas of intellectual property, bias, authenticity, and the impact of AI-generated content on society.
- NVivo software or other qualitative analysis tools can be used to aid the coding and categorization of the data.

Quantitative Data Analysis:

Survey data will be analyzed using descriptive statistics to summarize respondents' perceptions of generative AI's impact. Statistical software (e.g., SPSS or Excel) will be used for data analysis.

5. Validity and Reliability

To ensure the validity and reliability of the research findings:

- **Triangulation:** Multiple sources of data will be cross-verified—literature review, case studies, interviews, and surveys—to increase the credibility of the results.
- **Pilot Testing:** The survey and interview instruments will be pilot-tested with a small group of respondents to ensure clarity and relevance before full-scale deployment.
- **Peer Review:** The research methodology and findings will be peer-reviewed by academic experts to minimize bias and improve robustness.

Statistical Analysis

Table 1: Distribution of Respondents by Profession

Profession	Number of Respondents	Percentage (%)
Creative Professionals	50	40%
AI Developers	30	24%
Legal Experts	20	16%
Policymakers	15	12%
Others (Academics, Students)	10	8%

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Table 2: Awareness of Ethical Concerns in Generative AI

Level of Awareness	Number of Respondents	Percentage (%)
High	60	48%
Moderate	45	36%
Low	25	20%

Table 3: Perceived Impact of Generative AI on Creative Industries

Impact	Number of Respondents	Percentage (%)
Positive	55	44%
Negative	30	24%
Neutral	40	32%

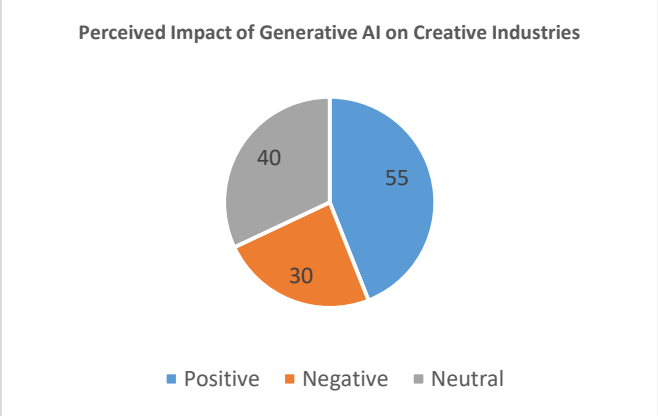

Table 4: Key Ethical Concerns Identified by Respondents

Ethical Concern	Number of Mentions	Percentage (%)
Intellectual Property	80	64%
Bias in AI	70	56%
Job Displacement	60	48%
Cultural Homogenization	45	36%

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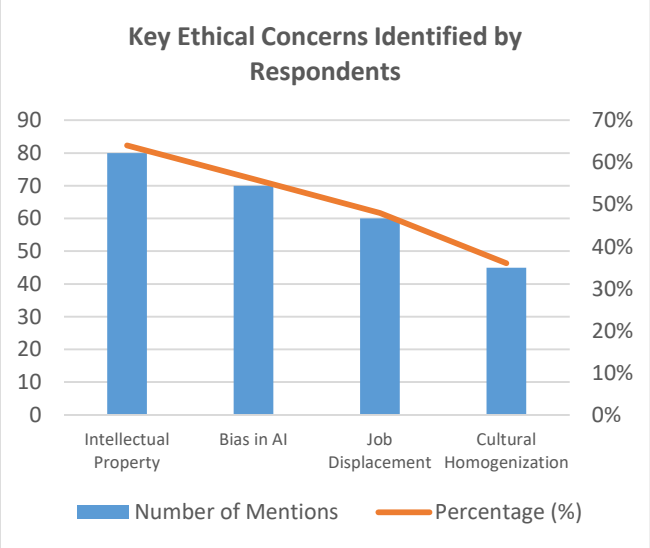
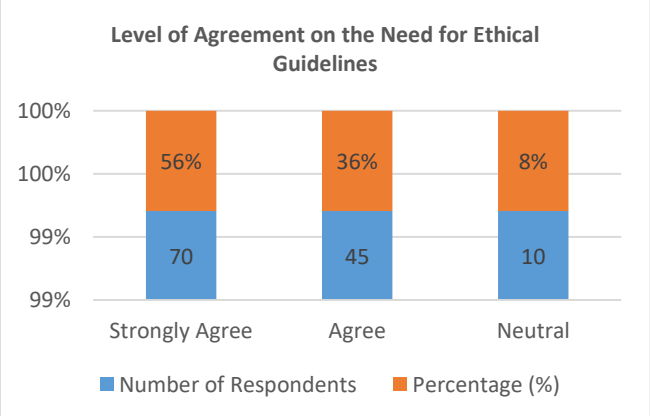


Table 5: Respondents' Opinion on Intellectual Property Reform

Opinion	Number of Respondents	Percentage (%)
Strongly Agree	40	32%
Agree	50	40%
Neutral	20	16%
Disagree	15	12%

Table 6: Level of Agreement on the Need for Ethical Guidelines

Level of Agreement	Number of Respondents	Percentage (%)
Strongly Agree	70	56%
Agree	45	36%
Neutral	10	8%



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IV. CONCLUSION OF ASSESSMENT

The significance of this study extends beyond academic inquiry, offering practical insights for various stakeholders, including AI developers, creative professionals, policymakers, and the public. Its focus on ethical guidelines, regulatory frameworks, and human-AI collaboration ensures that the benefits of generative AI can be harnessed while minimizing its risks. Ultimately, this research aims to foster a future where generative AI serves as a tool for inclusive, ethical, and innovative creativity, contributing positively to both technological progress and human cultural expression.

REFERENCES

1. Patchamatla, P. S. (2020). Comparison of virtualization models in OpenStack. International Journal of Multidisciplinary Research in Science, Engineering and Technology, 3(03).
2. Patchamatla, P. S., & Owolabi, I. O. (2020). Integrating serverless computing and kubernetes in OpenStack for dynamic AI workflow optimization. International Journal of Multidisciplinary Research in Science, Engineering and Technology, 1, 12.
3. Patchamatla, P. S. S. (2019). Comparison of Docker Containers and Virtual Machines in Cloud Environments. Available at SSRN 5180111.
4. Patchamatla, P. S. S. (2021). Implementing Scalable CI/CD Pipelines for Machine Learning on Kubernetes. International Journal of Multidisciplinary and Scientific Emerging Research, 9(03), 10-15662.
5. Thepa, P. C., & Luc, L. C. (2017). The role of Buddhist temple towards the society. International Journal of Multidisciplinary Educational Research, 6(12[3]), 70–77.
6. Thepa, P. C. A. (2019). Niravana: the world is not born of cause. International Journal of Research, 6(2), 600-606.
7. Thepa, P. C. (2019). Buddhism in Thailand: Role of Wat toward society in the period of Sukhothai till early Ratanakosin 1238–1910 A.D. International Journal of Research and Analytical Reviews, 6(2), 876–887.
8. Acharshubho, T. P., Sairarod, S., & Thich Nguyen, T. (2019). Early Buddhism and Buddhist archaeological sites in Andhra South India. Research Review International Journal of Multidisciplinary, 4(12), 107–111.
9. Phanthanaphruet, N., Dhammateero, V. P. J., & Phramaha Chakrapol, T. (2019). The role of Buddhist monastery toward Thai society in an inscription of the great King Ramkhamhaeng. The Journal of Sirindhornparithat, 21(2), 409–422.
10. Bhujell, K., Khemraj, S., Chi, H. K., Lin, W. T., Wu, W., & Thepa, P. C. A. (2020). Trust in the sharing economy: An improvement in terms of customer intention. Indian Journal of Economics and Business, 20(1), 713–730.
11. Khemraj, S., Thepa, P. C. A., & Chi, H. (2021). Phenomenology in education research: Leadership ideological. Webology, 18(5).
12. Sharma, K., Acharashubho, T. P. C., Hsinkuang, C., ... (2021). Prediction of world happiness scenario effective in the period of COVID-19 pandemic, by artificial neuron network (ANN), support vector machine (SVM), and regression tree (RT). Natural Volatiles & Essential Oils, 8(4), 13944–13959.
13. Thepa, P. C. (2021). Indispensability perspective of enlightenment factors. Journal of Dhamma for Life, 27(4), 26–36.
14. Acharashubho, T. P. C. (n.d.). The transmission of Indian Buddhist cultures and arts towards Funan periods on 1st–6th century: The evidence in Vietnam. International Journal of Development Administration Research, 4(1), 7–16.
15. Vadisetty, R., Polamarasetti, A., Guntupalli, R., Rongali, S. K., Raghunath, V., Jyothi, V. K., & Kudithipudi, K. (2021). Legal and Ethical Considerations for Hosting GenAI on the Cloud. International Journal of AI, BigData, Computational and Management Studies, 2(2), 28-34.
16. Vadisetty, R., Polamarasetti, A., Guntupalli, R., Raghunath, V., Jyothi, V. K., & Kudithipudi, K. (2021). Privacy-Preserving Gen AI in Multi-Tenant Cloud Environments. Sateesh kumar and Raghunath, Vedaprada and Jyothi, Vinaya Kumar and Kudithipudi, Karthik, Privacy-Preserving Gen AI in Multi-Tenant Cloud Environments (January 20, 2021).
17. Vadisetty, R., Polamarasetti, A., Guntupalli, R., Rongali, S. K., Raghunath, V., Jyothi, V. K., & Kudithipudi, K. (2020). Generative AI for Cloud Infrastructure Automation. International Journal of Artificial Intelligence, Data Science, and Machine Learning, 1(3), 15-20.
18. Sowjanya, A., Swaroop, K. S., Kumar, S., & Jain, A. (2021, December). Neural Network-based Soil Detection and Classification. In 2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART) (pp. 150-154). IEEE.
19. Harshitha, A. G., Kumar, S., & Jain, A. (2021, December). A Review on Organic Cotton: Various Challenges, Issues and Application for Smart Agriculture. In 2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART) (pp. 143-149). IEEE.

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20. Jain, V., Saxena, A. K., Senthil, A., Jain, A., & Jain, A. (2021, December). Cyber-bullying detection in social media platform using machine learning. In 2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART) (pp. 401-405). IEEE.
21. Gandhi Vaibhav, C., & Pandya, N. Feature Level Text Categorization For Opinion Mining. International Journal of Engineering Research & Technology (IJERT) Vol, 2, 2278-0181.
22. Gandhi Vaibhav, C., & Pandya, N. Feature Level Text Categorization For Opinion Mining. International Journal of Engineering Research & Technology (IJERT) Vol, 2, 2278-0181.
23. Gandhi, V. C. (2012). Review on Comparison between Text Classification Algorithms/Vaibhav C. Gandhi, Jignesh A. Prajapati. International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), 1(3).
24. Desai, H. M., & Gandhi, V. (2014). A survey: background subtraction techniques. International Journal of Scientific & Engineering Research, 5(12), 1365.
25. Maisuriya, C. S., & Gandhi, V. (2015). An Integrated Approach to Forecast the Future Requests of User by Weblog Mining. International Journal of Computer Applications, 121(5).
26. Maisuriya, C. S., & Gandhi, V. (2015). An Integrated Approach to Forecast the Future Requests of User by Weblog Mining. International Journal of Computer Applications, 121(5).
27. esai, H. M., Gandhi, V., & Desai, M. (2015). Real-time Moving Object Detection using SURF. IOSR Journal of Computer Engineering (IOSR-JCE), 2278-0661.
28. Gandhi Vaibhav, C., & Pandya, N. Feature Level Text Categorization For Opinion Mining. International Journal of Engineering Research & Technology (IJERT) Vol, 2, 2278-0181.
29. Singh, A. K., Gandhi, V. C., Subramanyam, M. M., Kumar, S., Aggarwal, S., & Tiwari, S. (2021, April). A Vigorous Chaotic Function Based Image Authentication Structure. In Journal of Physics: Conference Series (Vol. 1854, No. 1, p. 012039). IOP Publishing.
30. Jain, A., Sharma, P. C., Vishwakarma, S. K., Gupta, N. K., & Gandhi, V. C. (2021). Metaheuristic Techniques for Automated Cryptanalysis of Classical Transposition Cipher: A Review. Smart Systems: Innovations in Computing: Proceedings of SSIC 2021, 467-478.
31. Gandhi, V. C., & Gandhi, P. P. (2022, April). A survey-insights of ML and DL in health domain. In 2022 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS) (pp. 239-246). IEEE.
32. Dhinakaran, M., Priya, P. K., Alanya-Beltran, J., Gandhi, V., Jaiswal, S., & Singh, D. P. (2022, December). An Innovative Internet of Things (IoT) Computing-Based Health Monitoring System with the Aid of Machine Learning Approach. In 2022 5th International Conference on Contemporary Computing and Informatics (IC3I) (pp. 292-297). IEEE.
33. Dhinakaran, M., Priya, P. K., Alanya-Beltran, J., Gandhi, V., Jaiswal, S., & Singh, D. P. (2022, December). An Innovative Internet of Things (IoT) Computing-Based Health Monitoring System with the Aid of Machine Learning Approach. In 2022 5th International Conference on Contemporary Computing and Informatics (IC3I) (pp. 292-297). IEEE.
34. Sharma, S., Sanyal, S. K., Sushmita, K., Chauhan, M., Sharma, A., Anirudhan, G., ... & Kateriya, S. (2021). Modulation of phototropin signalosome with artificial illumination holds great potential in the development of climate-smart crops. Current Genomics, 22(3), 181-213.
35. Agrawal, N., Jain, A., & Agarwal, A. (2019). Simulation of network on chip for 3D router architecture. International Journal of Recent Technology and Engineering, 8(1C2), 58-62.
36. Jain, A., AlokGahlot, A. K., & RakeshDwivedi, S. K. S. (2017). Design and FPGA Performance Analysis of 2D and 3D Router in Mesh NoC. Int. J. Control Theory Appl. IJCTA ISSN, 0974-5572.
37. Arulkumaran, R., Mahimkar, S., Shekhar, S., Jain, A., & Jain, A. (2021). Analyzing information asymmetry in financial markets using machine learning. International Journal of Progressive Research in Engineering Management and Science, 1(2), 53-67.
38. Subramanian, G., Mohan, P., Goel, O., Arulkumaran, R., Jain, A., & Kumar, L. (2020). Implementing Data Quality and Metadata Management for Large Enterprises. International Journal of Research and Analytical Reviews (IJRAR), 7(3), 775.
39. Kumar, S., Prasad, K. M. V. V., Srilekha, A., Suman, T., Rao, B. P., & Krishna, J. N. V. (2020, October). Leaf disease detection and classification based on machine learning. In 2020 International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE) (pp. 361-365). IEEE.
40. Karthik, S., Kumar, S., Prasad, K. M., Mysurareddy, K., & Seshu, B. D. (2020, November). Automated home-based physiotherapy. In 2020 International Conference on Decision Aid Sciences and Application (DASA) (pp. 854-859). IEEE.

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41. Rani, S., Lakhwani, K., & Kumar, S. (2020, December). Three dimensional wireframe model of medical and complex images using cellular logic array processing techniques. In International conference on soft computing and pattern recognition (pp. 196-207). Cham: Springer International Publishing.
42. Raja, R., Kumar, S., Rani, S., & Laxmi, K. R. (2020). Lung segmentation and nodule detection in 3D medical images using convolution neural network. In Artificial Intelligence and Machine Learning in 2D/3D Medical Image Processing (pp. 179-188). CRC Press.
43. Kantipudi, M. P., Kumar, S., & Kumar Jha, A. (2021). Scene text recognition based on bidirectional LSTM and deep neural network. Computational Intelligence and Neuroscience, 2021(1), 2676780.
44. Rani, S., Gowroju, S., & Kumar, S. (2021, December). IRIS based recognition and spoofing attacks: A review. In 2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART) (pp. 2-6). IEEE.
45. Kumar, S., Rajan, E. G., & Rani, S. (2021). Enhancement of satellite and underwater image utilizing luminance model by color correction method. Cognitive Behavior and Human Computer Interaction Based on Machine Learning Algorithm, 361-379.
46. Rani, S., Ghai, D., & Kumar, S. (2021). Construction and reconstruction of 3D facial and wireframe model using syntactic pattern recognition. Cognitive Behavior and Human Computer Interaction Based on Machine Learning Algorithm, 137-156.
47. Rani, S., Ghai, D., & Kumar, S. (2021). Construction and reconstruction of 3D facial and wireframe model using syntactic pattern recognition. Cognitive Behavior and Human Computer Interaction Based on Machine Learning Algorithm, 137-156.
48. Kumar, S., Raja, R., Tiwari, S., & Rani, S. (Eds.). (2021). Cognitive behavior and human computer interaction based on machine learning algorithms. John Wiley & Sons.
49. Shitharth, S., Prasad, K. M., Sangeetha, K., Kshirsagar, P. R., Babu, T. S., & Alhelou, H. H. (2021). An enriched RPCO-BCNN mechanisms for attack detection and classification in SCADA systems. IEEE Access, 9, 156297-156312.
50. Kantipudi, M. P., Rani, S., & Kumar, S. (2021, November). IoT based solar monitoring system for smart city: an investigational study. In 4th Smart Cities Symposium (SCS 2021) (Vol. 2021, pp. 25-30). IET.
51. Sravya, K., Himaja, M., Prapti, K., & Prasad, K. M. (2020, September). Renewable energy sources for smart city applications: A review. In IET Conference Proceedings CP777 (Vol. 2020, No. 6, pp. 684-688). Stevenage, UK: The Institution of Engineering and Technology.
52. Raj, B. P., Durga Prasad, M. S. C., & Prasad, K. M. (2020, September). Smart transportation system in the context of IoT based smart city. In IET Conference Proceedings CP777 (Vol. 2020, No. 6, pp. 326-330). Stevenage, UK: The Institution of Engineering and Technology.
53. Meera, A. J., Kantipudi, M. P., & Aluvalu, R. (2019, December). Intrusion detection system for the IoT: A comprehensive review. In International Conference on Soft Computing and Pattern Recognition (pp. 235-243). Cham: Springer International Publishing.
54. Garlapati Nagababu, H. J., Patel, R., Joshi, P., Kantipudi, M. P., & Kachhwaha, S. S. (2019, May). Estimation of uncertainty in offshore wind energy production using Monte-Carlo approach. In ICTEA: International Conference on Thermal Engineering (Vol. 1, No. 1).