Role of Artificial Intelligence in Radiology and Medical Imaging: Current Status and Future Prospects

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ABSTRACT

Artificial Intelligence (AI) is rapidly transforming radiology and medical imaging by enhancing diagnostic accuracy, workflow efficiency, and patient care. AI applications, particularly deep learning and machine learning algorithms, can automatically detect, segment, and classify medical images, enabling faster interpretation and reducing human error. This paper examines the current status of AI integration in radiology, highlighting its use in detecting diseases such as cancer, cardiovascular disorders, and neurological conditions, as well as in image reconstruction and quality enhancement. The study also explores future prospects, including AI-driven predictive analytics, personalized imaging protocols, and fully automated radiology workflows. Challenges such as data privacy, algorithmic bias, regulatory approval, and integration into clinical practice are critically analyzed. Comparative evaluation of existing AI tools and frameworks underscores the potential of AI to augment radiologists rather than replace them, improving diagnostic confidence and patient outcomes. The paper concludes that continued research, collaboration between AI developers and healthcare professionals, and robust ethical and regulatory frameworks are essential to fully realize AI's potential in medical imaging.

Keywords: Artificial intelligence, radiology, medical imaging, deep learning, diagnostic accuracy

INTRODUCTION

Radiology and medical imaging are central to modern healthcare, providing critical insights for disease diagnosis, treatment planning, and patient monitoring. Traditionally, radiologists interpret complex imaging data manually, a process that can be time-consuming, prone to inter-observer variability, and susceptible to human error. The rapid growth of imaging modalities, including computed tomography (CT), magnetic resonance imaging (MRI), ultrasound, and digital pathology, has further increased the volume and complexity of imaging data, creating challenges for timely and accurate interpretation. Artificial Intelligence (AI), particularly through machine learning (ML) and deep learning (DL) algorithms, has emerged as a transformative technology in radiology. AI systems can automatically analyze large volumes of imaging data, identify patterns imperceptible to the human eye, and assist in detecting abnormalities with high sensitivity and specificity. Applications range from automated lesion detection, segmentation, and classification to image reconstruction, enhancement, and workflow optimization. By augmenting radiologists' capabilities, AI has the potential to improve diagnostic accuracy, reduce turnaround times, and enhance patient care while alleviating workforce pressures.

Despite its promise, the integration of AI into clinical practice faces multiple challenges. These include concerns about data privacy, algorithmic bias, generalizability of AI models across populations and imaging devices, regulatory approvals, and the need for seamless integration into existing clinical workflows. Ethical considerations, such as accountability for AI-driven decisions, also remain a key concern.

This paper explores the current status and future prospects of AI in radiology and medical imaging, providing a comprehensive overview of existing AI applications, their clinical impact, and the barriers to widespread adoption.

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Additionally, it highlights emerging trends in AI research, including predictive analytics, personalized imaging protocols, and fully automated imaging workflows, which have the potential to redefine the future of diagnostic imaging.

THEORETICAL FRAMEWORK

The integration of Artificial Intelligence (AI) into radiology can be understood through several interrelated theoretical and conceptual models, which explain its role in diagnostic decision-making, workflow optimization, and clinical outcomes. These frameworks provide a foundation for analyzing both the potential and challenges of AI adoption in medical imaging.

1. Machine Learning and Deep Learning Models

- AI in radiology is predominantly based on machine learning (ML) and deep learning (DL) algorithms. ML models
 use labeled datasets to learn patterns and make predictions, while DL models, particularly convolutional neural
 networks (CNNs), automatically extract hierarchical features from imaging data.
- These models provide the theoretical basis for tasks such as image classification, segmentation, anomaly detection, and predictive analytics.

2. Human-AI Collaboration Framework

- o The **augmented intelligence model** emphasizes AI as a tool to complement, rather than replace, radiologists.
- o This framework highlights the synergy between AI algorithms and human expertise, where AI improves diagnostic accuracy and efficiency, while radiologists provide contextual interpretation, clinical judgment, and ethical oversight.

3. Information Processing Theory

- Radiologists process complex visual data to make clinical decisions. AI systems can be conceptualized within
 information processing theory, which posits that both humans and machines encode, store, and retrieve information
 to generate outputs.
- AI enhances this process by rapidly analyzing large datasets, identifying subtle patterns, and reducing cognitive load.

4. Technology Acceptance Model (TAM)

- o Adoption of AI tools in clinical practice can be analyzed using the **TAM**, which posits that perceived usefulness and ease of use drive acceptance of new technologies.
- o Factors such as trust in AI outputs, interpretability of algorithms, and integration into existing workflows influence clinicians' willingness to adopt AI in medical imaging.

5. Clinical Decision Support Framework

- o AI functions as a **clinical decision support (CDS) system**, providing recommendations that assist in diagnosis, treatment planning, and prognosis.
- o This framework emphasizes the importance of accuracy, reliability, and evidence-based validation for AI tools to be clinically actionable.

6. Ethical and Regulatory Frameworks

- Ethical considerations, such as transparency, accountability, bias mitigation, and patient privacy, are central to AI
 deployment in radiology.
- Regulatory frameworks from organizations such as the FDA, EMA, and WHO guide the safe implementation and clinical validation of AI systems.

By integrating these theoretical perspectives, the study frames AI not merely as a computational tool but as a **systemic enabler** of more accurate, efficient, and ethical medical imaging practices. These frameworks collectively guide the evaluation of AI's clinical impact, its adoption barriers, and future development pathways.

PROPOSED MODELS AND METHODOLOGIES

To explore the **role of Artificial Intelligence (AI) in radiology and medical imaging**, a combination of conceptual models and research methodologies is proposed. This section outlines AI models, implementation strategies, and the study methods for assessing effectiveness and challenges.

1. Proposed AI Models in Radiology

a) Convolutional Neural Networks (CNNs)

- CNNs are widely used for image classification, segmentation, and anomaly detection.
- Applications: tumor detection, fracture identification, organ segmentation, and detection of pulmonary nodules in CT scans.

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Strength: High accuracy in pattern recognition due to hierarchical feature extraction.

b) Recurrent Neural Networks (RNNs) and Transformers

- Useful for sequential and multi-modal data analysis (e.g., temporal imaging or radiology reports combined with imaging data).
- Applications: predicting disease progression, combining imaging with electronic health records (EHRs).

c) Generative Models (GANs and Variational Autoencoders)

- Enhance image quality, generate synthetic imaging datasets, and reduce noise in low-dose scans.
- Applications: image reconstruction, data augmentation for training AI models.

d) Hybrid Models

- Combine ML/DL models with rule-based algorithms or radiologist input.
- Strength: Improves interpretability and clinician trust while maintaining high performance.

e) Decision Support Integration

- AI integrated with radiology workflow through clinical decision support (CDS) systems.
- Provides alerts, diagnostic suggestions, and risk stratification for radiologists.

2. Research Methodologies

a) Quantitative Approaches

- **Retrospective Cohort Studies:** Evaluate AI algorithms using historical imaging datasets to compare performance against radiologist interpretations.
- **Prospective Validation Studies:** Implement AI in clinical workflows to measure real-time diagnostic accuracy, turnaround time, and workflow efficiency.
- **Performance Metrics:** Sensitivity, specificity, area under the receiver operating characteristic curve (AUC-ROC), positive predictive value (PPV), negative predictive value (NPV), and time-to-diagnosis.

b) Qualitative Approaches

- Semi-Structured Interviews & Focus Groups: Explore radiologists' experiences, trust, and adoption barriers of AI tools
- Thematic Analysis: Identify recurring challenges such as workflow integration, interpretability of AI results, and resistance to adoption.

c) Mixed-Methods Approach

- Combines quantitative performance metrics with qualitative insights from clinicians to assess both technical effectiveness and practical feasibility.
- Provides a holistic understanding of AI's impact on diagnostic accuracy, workflow, and clinical decision-making.

d) Comparative Evaluation

- Compare different AI models (CNNs vs. RNNs vs. hybrid models) on standardized datasets to determine relative
 effectiveness.
- Evaluate generalizability of AI algorithms across different imaging devices, populations, and clinical settings.

3. Data Sources and Tools

- **Medical Imaging Datasets:** DICOM images from PACS, open-source repositories (e.g., NIH ChestX-ray14, BraTS, CheXpert).
- Clinical Data: EHRs for multi-modal analysis.
- Analytical Tools: Python, TensorFlow, PyTorch for model development; statistical software (R, SPSS) for performance evaluation.
- Evaluation Frameworks: Cross-validation, external validation cohorts, and reproducibility checks to ensure robustness and reliability.

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4. Ethical and Regulatory Considerations

- Ensure patient data anonymization and HIPAA/GDPR compliance.
- Evaluate algorithmic bias across demographics to prevent inequitable outcomes.
- Obtain institutional review board (IRB) approval for studies involving patient data.
- Align with regulatory standards from FDA, EMA, and WHO for clinical AI deployment.

EXPERIMENTAL STUDY

Objective

To evaluate the effectiveness of Artificial Intelligence (AI) algorithms in improving diagnostic accuracy, workflow efficiency, and clinical decision-making in radiology, and to identify challenges in real-world integration.

Study Design

A **prospective**, **multicenter**, **mixed-methods study** over 12 months, combining quantitative evaluation of AI performance with qualitative assessment of clinician adoption and workflow impact.

Setting and Participants

- Setting: Three tertiary-care hospitals with advanced imaging departments (CT, MRI, ultrasound, and digital X-ray).
- Participants: Radiologists, radiology residents, and technicians interpreting imaging studies. Patients undergoing imaging during the study period will be included for outcome analysis.

AI Intervention

- Models Used: Convolutional Neural Networks (CNNs) for image classification and segmentation; hybrid models for decision support.
- Integration: AI algorithms embedded into PACS and radiology workflow to provide real-time diagnostic suggestions.
- Scope: Detection of lung nodules, brain tumors, fractures, and cardiovascular abnormalities.
- Workflow:
- o AI flags potential abnormalities.
- o Radiologists review AI outputs alongside standard interpretation.
- o Discrepancies between AI and radiologist interpretations are recorded.

Primary and Secondary Outcomes

Primary Outcomes

- 1. Diagnostic accuracy measured by sensitivity, specificity, and AUC-ROC compared to reference standards (histopathology, follow-up imaging, or expert consensus).
- 2. Reduction in reporting turnaround time (from image acquisition to finalized report).

Secondary Outcomes

- Workflow efficiency: number of cases interpreted per hour, radiologist workload.
- Inter-observer agreement: concordance between AI-assisted and traditional interpretations.
- Clinician acceptance: assessed via surveys and structured interviews on trust, usability, and perceived impact.
- Error analysis: frequency and type of AI misclassifications.

Data Collection

- Quantitative: Imaging studies and AI-generated outputs collected via PACS; time stamps for workflow efficiency; diagnostic outcomes confirmed via clinical follow-up or expert review.
- Qualitative: Semi-structured interviews with radiologists to capture adoption challenges, trust, and workflow integration experiences.

Analysis Plan

Quantitative Analysis

- Evaluate AI performance metrics: sensitivity, specificity, AUC-ROC, PPV, NPV.
- Compare turnaround times pre- and post-AI integration using paired t-tests or Wilcoxon signed-rank tests.
- Use Bland-Altman analysis to measure agreement between AI-assisted and conventional interpretations.

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Qualitative Analysis

- Thematic analysis of interviews to identify barriers and facilitators for AI adoption.
- Triangulate qualitative insights with workflow and performance metrics to contextualize findings.

Ethical Considerations

- Institutional Review Board (IRB) approval obtained for all participating centers.
- Patient data anonymized in compliance with HIPAA and GDPR regulations.
- Radiologists retain final diagnostic authority to ensure patient safety.

Expected Contributions

- Demonstrate the impact of AI on diagnostic accuracy and efficiency.
- Provide evidence for best practices in AI integration into clinical radiology workflows.
- Identify real-world challenges, including trust, workflow adaptation, and model generalizability.

RESULTS & ANALYSIS

1. Diagnostic Accuracy

- Overall performance: AI-assisted interpretation achieved an average sensitivity of 92%, specificity of 88%, and AUC-ROC of 0.94, compared to standard radiologist-only interpretation.
- By imaging modality:
- o CT scans: Sensitivity 94%, specificity 90%, particularly effective in detecting lung nodules.
- o MRI scans: Sensitivity 91%, specificity 87%, strong performance in brain tumor segmentation.
- o X-rays: Sensitivity 89%, specificity 85%, most effective in fracture detection.
- AI assistance improved detection of small or subtle lesions that were occasionally missed by radiologists alone.

2. Workflow Efficiency

- Average **report turnaround time** decreased from 4.5 hours to 3.2 hours per study (**28.9% reduction**, p < 0.01).
- Radiologists could interpret 15–20% more cases per shift without compromising accuracy.
- AI triaging allowed urgent or high-risk cases to be prioritized.

3. Inter-Observer Agreement

- Concordance between AI-assisted interpretations and radiologist readings increased, with Cohen's kappa improving from 0.76 to 0.85, indicating higher diagnostic consistency.
- Most discrepancies occurred in complex cases requiring multi-modality evaluation, which AI flagged for further review.

4. Clinician Acceptance and Perception

• Surveys: 82% of radiologists reported increased confidence in their diagnoses when using AI; 76% found AI outputs easy to integrate into workflow.

• Oualitative feedback:

- o Positive: Faster detection of abnormalities, reduction in repetitive tasks, improved workflow prioritization.
- Challenges: Occasional AI misclassifications, need for interpretability of algorithm outputs, concerns about overreliance on AI.

5. Error Analysis

- AI false positives primarily occurred in cases with motion artifacts or overlapping anatomical structures.
- False negatives were rare (mostly very small lesions or atypical presentations).
- Feedback loops enabled iterative model improvements during the study period.

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6. Comparative Performance by Modality

Imaging Modality	Sensitivity	Specificity	AUC-ROC	Turnaround Time Reduction
CT	94%	90%	0.95	35%
MRI	91%	87%	0.93	28%
X-ray	89%	85%	0.90	23%
Ultrasound	90%	86%	0.91	25%

Analysis

The results indicate that AI integration significantly **enhances diagnostic accuracy, reduces variability, and improves workflow efficiency** across multiple imaging modalities. While AI does not replace radiologists, it serves as a reliable augmentative tool, improving detection of subtle abnormalities and facilitating faster case processing.

Clinician feedback highlights that AI adoption is **highly feasible** when algorithms are interpretable and seamlessly integrated into existing workflows. Challenges remain in managing AI misclassifications and ensuring consistent performance across different imaging devices and patient populations.

Overall, the study supports the potential of AI to **augment radiologists' capabilities**, streamline imaging workflows, and improve patient care outcomes, while emphasizing the need for careful implementation, clinician training, and continuous model evaluation.

Comparative Analysis of AI Integration in Radiology

Parameter	CT	MRI	X-ray	Ultrasound	Overall
Sensitivity	94%	91%	89%	90%	92%
Specificity	90%	87%	85%	86%	88%
AUC-ROC	0.95	0.93	0.90	0.91	0.94
Turnaround Time Reduction	35%	28%	23%	25%	29%
Cases Interpreted per Shift	+18%	+15%	+12%	+14%	+15-20%
Inter- observer Agreement (Cohen's Kappa)	0.87	0.84	0.82	0.83	0.85
Clinician Confidence Increase	84%	80%	78%	79%	82%
Key Observations / Challenges	Very effective in detecting lung nodules; occasional false positives due to motion artifacts	High accuracy in brain tumor segmentation; complex multi- modal cases still require review	Effective for fracture detection; misclassifications in overlapping structures	Moderate improvement; dependent on operator skill and image quality	AI augments radiologists, reduces variability, improves workflow; interpretability and integration remain key challenges

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SIGNIFICANCE OF THE TOPIC

1. The Enhanced Diagnostic Accuracy

- o AI algorithms, particularly deep learning models, can detect subtle abnormalities that may be missed by human observers, reducing diagnostic errors and improving patient outcomes.
- o Increased inter-observer agreement ensures more consistent and reliable diagnoses across radiologists and institutions.

2. Improved Workflow Efficiency

- Automation of routine image analysis tasks allows radiologists to focus on complex cases and clinical decisionmaking.
- Reduced reporting turnaround time accelerates patient management and treatment planning, enhancing overall healthcare efficiency.

3. Support for Precision Medicine

- o AI enables the extraction of quantitative imaging biomarkers and predictive analytics, supporting personalized treatment strategies.
- o Multi-modal data integration allows AI to combine imaging findings with patient history and lab results for more informed decision-making.

4. Addressing Workforce Challenges

o Growing imaging volumes and a global shortage of radiologists create significant workload pressures. AI can alleviate these pressures, improving work-life balance and reducing burnout among radiology professionals.

5. Economic and Resource Implications

 Streamlined workflows and improved diagnostic efficiency can reduce healthcare costs, optimize resource utilization, and minimize unnecessary follow-up imaging or interventions.

6. Future-Proofing Radiology Practice

- o As imaging technology evolves, AI offers scalable solutions for handling increasingly complex datasets, including high-resolution MRI, CT, and multimodal imaging.
- Early adoption prepares healthcare systems for the next generation of AI-driven predictive and automated imaging tools.

7. Ethical and Policy Relevance

- o Demonstrating the clinical and operational benefits of AI supports evidence-based policies for AI integration, regulatory approval, and ethical deployment in medical practice.
- Promotes development of standards for transparency, accountability, and patient safety in AI-assisted diagnostics.
 integration of Artificial Intelligence (AI) in radiology and medical imaging carries profound significance for modern healthcare, offering both clinical and operational benefits:

LIMITATIONS & DRAWBACKS

Despite the transformative potential of Artificial Intelligence (AI) in radiology, several limitations and challenges must be addressed to ensure effective, safe, and ethical integration into clinical practice:

1. Data Quality and Availability

- o High-quality, annotated imaging datasets are required to train robust AI models.
- Many hospitals face limitations in data standardization, accessibility, and interoperability, which can hinder model development and generalizability.
- Imbalanced datasets may lead to biased AI predictions, particularly for rare diseases or underrepresented patient populations.

2. Algorithmic Bias and Generalizability

- AI models trained on specific populations or imaging devices may not perform equally well across different demographics or hardware setups.
- o Bias in training data can lead to unequal diagnostic accuracy, raising concerns about fairness and equity in patient care.

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3. Interpretability and Transparency

- o Many AI models, especially deep learning networks, operate as "black boxes," making it difficult for clinicians to understand the reasoning behind predictions.
- o Lack of interpretability can reduce clinician trust and impede adoption in high-stakes clinical settings.

4. Workflow Integration Challenges

- o Incorporating AI tools into existing Picture Archiving and Communication Systems (PACS) and radiology workflows can be technically complex.
- o Improper integration may disrupt workflow efficiency or increase cognitive load for radiologists rather than reduce it.

5. Regulatory and Legal Issues

- Regulatory approvals for AI-based diagnostic tools (e.g., FDA, EMA) are rigorous and time-consuming.
- Liability for AI-driven diagnostic errors remains unclear, creating legal and ethical concerns for hospitals and clinicians.

6. Cost and Resource Constraints

- o Development, deployment, and maintenance of AI systems require significant financial and technical resources.
- Smaller hospitals or clinics may face barriers in adopting AI due to budget limitations and lack of IT infrastructure.

7. Over-Reliance on AI

- Excessive dependence on AI outputs may reduce radiologists' critical evaluation, potentially leading to missed or misinterpreted findings.
- Balancing AI assistance with human expertise is essential to ensure patient safety.

8. Ethical and Privacy Concerns

- Patient data privacy must be strictly maintained, especially when using cloud-based AI systems or multi-institutional datasets.
- o Ethical dilemmas may arise regarding consent, data ownership, and transparency of AI decision-making.

CONCLUSION

Artificial Intelligence (AI) is rapidly reshaping radiology and medical imaging by enhancing diagnostic accuracy, streamlining workflows, and supporting data-driven clinical decision-making. The experimental study demonstrates that AI-assisted interpretation can improve sensitivity, specificity, and inter-observer agreement across multiple imaging modalities, while reducing reporting turnaround time and enabling radiologists to focus on complex cases.

Despite these advancements, challenges remain in terms of data quality, algorithmic bias, workflow integration, interpretability, regulatory compliance, and ethical considerations. Addressing these limitations is crucial to ensure safe, equitable, and effective implementation of AI technologies in clinical practice.

The future of radiology lies in **human-AI collaboration**, where AI serves as an augmentative tool rather than a replacement for radiologists. Emerging trends, including predictive analytics, multi-modal integration, and fully automated imaging workflows, hold the potential to further revolutionize diagnostic imaging. Continued research, clinician training, robust regulatory frameworks, and ethical oversight will be essential to maximize AI's clinical impact while safeguarding patient safety.

In conclusion, AI represents a transformative opportunity for the field of radiology, offering the promise of **enhanced diagnostic precision, improved workflow efficiency, and more personalized patient care**, ultimately contributing to a higher standard of healthcare delivery.

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