# Optimizing for the Artificial Intelligence Driven Search Era: An Integrated Framework for Search Engine Optimization, Generative Engine Optimization, and Answer Engine Optimization

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Abstract - The evolution of search technologies from traditional keyword-based retrieval toward generative and answerbased paradigms has fundamentally altered digital visibility strategies. Conventional Search Engine Optimization (SEO), while still essential, is increasingly insufficient for ensuring content presence in environments dominated by generative artificial intelligence (AI) and answer engines. Generative Engine Optimization (GEO) and Answer Engine Optimization (AEO) have emerged as complementary approaches, targeting synthesized AI outputs and direct-answer contexts, respectively. This paper proposes an integrated framework that unifies SEO, GEO, and AEO to address the challenges of the AI-driven search era. Using a conceptual methodology grounded in systematic literature synthesis and comparative analysis, the study identifies overlapping principles, unique features, and emerging metrics across the three paradigms. Findings indicate that structured data, entity recognition, authoritative sourcing, and intent-driven content design are critical for visibility across traditional and generative systems. The framework advances scholarly understanding by bridging fragmented research domains and offers practical guidance for organizations seeking sustainable digital presence. Future directions for empirical validation and ethical considerations in AI-mediated information retrieval are also discussed.

#### **Key Words:**

Search Engine Optimization (SEO), Answer Engine Optimization (AEO), Generative Engine Optimization (GEO), Generative Artificial Intelligence (AI), AI-driven search, digital visibility, Search Generative Experience (SGE), information retrieval, content authority, structured data, entity recognition, zero-click search, ethical AI optimization, integrated optimization framework

#### 1. Introduction

#### 1.1 Background

Search has long served as the gateway to information, commerce, and communication in the digital age. Traditional Search Engine Optimization (SEO) has been the cornerstone of online visibility, with practices evolving from rudimentary keyword density strategies in the early 2000s to sophisticated approaches emphasizing semantic relevance, mobile performance, and user experience (Fishkin & Høgenhaven, 2023). However, the rise of generative artificial intelligence (AI) systems, such as OpenAI's ChatGPT, Google's Search Generative Experience (SGE), and Perplexity AI, has disrupted this paradigm. These systems provide synthesized, contextually aware answers to user queries, often bypassing traditional Search Engine Results Pages (SERPs).

This shift has profound implications. Organizations can no longer rely solely on ranking high in SERPs; they must also ensure their content is accessible, citable, and trusted by AI systems that generate direct responses. The emergence of

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Answer Engine Optimization (AEO) and Generative Engine Optimization (GEO) reflects attempts to adapt to these changes. AEO focuses on structuring content for visibility in featured snippets, voice search, and direct-answer formats, while GEO seeks to optimize content for inclusion in AI-generated outputs (Aggarwal et al., 2023; Jain & Sharma, 2024).

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#### 1.2 Problem Statement

Despite the growing attention to AEO and GEO, scholarship and practice remain fragmented. SEO, AEO, and GEO are often treated as separate silos, with limited research examining their intersections. The absence of a unified framework risks inefficiencies, redundant efforts, and missed opportunities for organizations navigating the AI-driven search landscape. Moreover, metrics for evaluating success in GEO remain underdeveloped, while ethical questions regarding attribution and accuracy in AI-generated responses complicate optimization strategies (Chen et al., 2025).

#### 1.3 Research Objectives and Questions

The primary objective of this paper is to develop an integrated framework for optimizing digital visibility across SEO, AEO, and GEO. Specifically, the study seeks to:

- 1. Identify the unique features and overlapping principles of SEO, AEO, and GEO.
- 2. Develop a conceptual model that unifies these approaches.
- 3. Explore implications for researchers, practitioners, and policymakers in the AI-driven search era.

These objectives are guided by the following research questions:

- RQ1: What are the defining characteristics and limitations of SEO, AEO, and GEO?
- RQ2: How can these three paradigms be integrated into a cohesive optimization framework?
- RQ3: What are the theoretical, practical, and ethical implications of such integration?

#### 1.4 Contribution of the Study

This paper contributes to both theory and practice. Theoretically, it advances scholarly discourse by bridging fragmented research domains and providing a holistic understanding of digital optimization. Practically, it equips organizations with actionable strategies for sustaining visibility in AI-mediated environments. Additionally, it highlights ethical considerations and proposes new metrics for evaluating optimization effectiveness in generative contexts.

#### 1.5 Structure of the Paper

The remainder of this paper is structured as follows: Section 2 presents a comprehensive literature review of SEO, AEO, and GEO. Section 3 outlines the conceptual methodology used in framework development. Section 4 presents the findings, including a comparative analysis and proposed framework. Section 5 discusses implications, challenges, and ethical considerations. Section 6 concludes with key takeaways and directions for future research.

#### 2. Literature Review

#### 2.1 Evolution of Search Engine Optimization (SEO)

SEO has undergone significant transformation since its early days, shifting from keyword-stuffing tactics to an emphasis on user intent, semantic search, and technical infrastructure. Early studies positioned SEO as a function of algorithmic manipulation (Evans, 2007), but recent scholarship frames it as a holistic practice integrating content quality, user experience, and trust signals (Fishkin & Høgenhaven, 2023).

Google's continuous algorithm updates (e.g., BERT in 2019, MUM in 2021, and Helpful Content updates through 2023– 2024) emphasize understanding context and meaning rather than simple keyword matching (Zhou et al., 2024). Moreover, the concept of E-E-A-T (Experience, Expertise, Authoritativeness, Trustworthiness) has redefined how websites establish

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credibility. SEO is therefore no longer about "gaming" search engines but about aligning with human-centered and machine-interpretable quality metrics.

## 2.2 Answer Engine Optimization (AEO)

The rise of direct-answer formats-such as Google's featured snippets, knowledge panels, and voice assistant responses-gave birth to AEO. Scholars identify AEO as the practice of structuring information to directly address natural language queries (Sharma & Jain, 2024).

Unlike traditional SEO, which aims for higher rankings, AEO targets zero-click visibility-ensuring content is surfaced even when users do not navigate to the source site. Techniques include:

- **Schema markup** (FAQ, Q&A, HowTo types).
- Concise, structured answers (one-paragraph definitions, bullet-point lists).
- Conversational alignment (anticipating queries like "what is...," "how does...," "why does...").

Research indicates that AEO benefits industries where speed of information retrieval is critical (e.g., healthcare, education, finance). However, AEO also introduces challenges: over-reliance on snippets can reduce web traffic despite improving brand visibility (Sullivan, 2023).

#### 2.3 Generative Engine Optimization (GEO)

GEO is the newest domain, emerging with the rise of large language models (LLMs) and generative AI search. Generative engines do not merely retrieve documents-they synthesize answers, often blending multiple sources. Optimizing for GEO requires ensuring that content is machine-readable, trustworthy, and cite-worthy (Aggarwal et al., 2023).

Key elements identified in early studies (Chen et al., 2025) include:

- *Entity recognition*: AI models better incorporate content when people, organizations, or concepts are explicitly tagged.
- *Citation signals*: Models prefer content linked to verifiable references.
- Semantic richness: Content structured with clear headings, summaries, and FAQs is more easily parsed.
- *Freshness*: Generative models, which may rely on static training data, favor sources that reflect up-to-date knowledge.

However, GEO is underdeveloped in academia. Industry blogs outline best practices, but peer-reviewed research is limited, raising the need for conceptual frameworks to guide empirical testing.

#### 2.4 Comparative Analysis of SEO, AEO, and GEO

While SEO, AEO, and GEO overlap, they diverge in focus (Table 1).

Table 1. Comparison of SEO, AEO, and GEO

Dimension	SEO	AEO	GEO
Primary Goal	Ranking in SERPs	Direct answers in	Inclusion in AI-generated outputs
		snippets/voice	
Optimization	Webpages (long-form,	Snippets, structured Q&A	Entities, citations, semantic
Unit	keyword-rich)		segments
Techniques	Keywords, backlinks, UX,	Schema markup, concise	Authority signals, structured
	site speed	answers, FAQs	metadata, entity linking
Metrics	Rank, CTR, organic traffic	Snippet share, voice	AI citation frequency, zero-click
		impressions	visibility



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Risks Algorithm dependency Reduced site traffic Black-box AI attribution, ethical concerns

This comparative view illustrates that SEO ensures discoverability, AEO enables accessibility, and GEO secures authority within AI-mediated synthesis.

#### 2.5 Research Gaps

Three gaps emerge from the literature:

- 1. *Lack of integration*: Most studies treat SEO, AEO, and GEO as distinct fields. Little research addresses how they can reinforce one another.
- 2. *Measurement challenges*: While SEO metrics are mature, AEO and especially GEO lack standardized measurement systems.
- 3. *Ethical and policy dimensions*: Few works address intellectual property, attribution, or misinformation risks in AI-generated answers.

These gaps underscore the need for an integrated conceptual framework, which this study proposes.

#### 3. Methodology

#### 3.1 Research Design

Given the novelty of Generative Engine Optimization (GEO) and its intersection with Search Engine Optimization (SEO) and Answer Engine Optimization (AEO), this study adopts a conceptual research design. Conceptual papers are widely recognized in information systems and marketing research when empirical data is scarce but theoretical integration is necessary (Whetten, 1989). By synthesizing diverse insights, this paper develops an integrated framework that can later be empirically validated.

#### 3.2 Data Sources

To construct the framework, this study relies on two types of sources:

- 1. Academic Literature (2019–2025)
  - Peer-reviewed journal articles, conference papers, and working papers from databases such as *Google Scholar*, *IEEE Xplore*, *ACM Digital Library*, and *SpringerLink*.
  - Examples include Aggarwal et al. (2023) on GEO, Zhou et al. (2024) on E-E-A-T in SEO, and Chen et al. (2025) on intent-driven generative search.
- 2. Industry White Papers and Reports (2021–2025)
  - Publications from organizations like Moz, SEMrush, and Search Engine Journal.
  - Reports from OpenAI, Google, and Microsoft on generative AI search practices.
  - Professional blogs and technical documents were used cautiously, cross-checked with academic sources to avoid bias.

#### 3.3 Data Collection and Analysis

The research followed a systematic literature synthesis process:

- 1. **Identification** Keywords such as "SEO evolution," "Answer Engine Optimization," "Generative Engine Optimization," "AI search engines" were used.
- 2. **Screening** Duplicates and irrelevant sources (e.g., purely commercial guides) were removed.

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- 3. **Selection** 60 high-relevance sources were shortlisted, balancing academic rigor and industry recency.
- 4. *Extraction* Key concepts, practices, and metrics were coded into categories.
- 5. *Analysis* Comparative mapping was conducted across SEO, AEO, and GEO dimensions (goals, techniques, metrics, challenges).

#### 3.4 Framework Development

The extracted insights were synthesized into a tri-layered framework. Each layer represents one optimization paradigm:

- Base Layer (SEO): Ensures fundamental discoverability via search engines.
- *Middle Layer (AEO)*: Optimizes for direct answers and structured query formats.
- *Top Layer (GEO)*: Positions content for AI-driven synthesis and citation.

The framework highlights interdependencies: SEO provides the technical foundation, AEO builds structured accessibility, and GEO secures authority in generative contexts.

#### 3.5 Validation Approach

While no original empirical dataset was collected, the framework was triangulated using:

- Case examples (e.g., Google SGE rollout reports, brand adoption of FAQ schema, OpenAI citation patterns).
- Cross-validation with multiple scholarly and industry sources.
- Peer benchmarking against conceptual framework standards (Jaakkola, 2020).

#### 3.6 Limitations

The methodology has three key limitations:

- 1. **Absence of primary data** The study does not conduct experiments or surveys; future work should empirically test the framework.
- 2. **Rapidly evolving context** AI search technology is changing quickly, meaning some recommendations may require adaptation.
- 3. *Regional and sectoral variations* Optimization practices may differ across industries (e.g., healthcare vs. e-commerce), which this paper addresses conceptually but not empirically.

### 4. Results / Findings

## **4.1 Comparative Insights**

The analysis of SEO, AEO, and GEO revealed distinct but interconnected optimization practices. Four overarching findings emerged:

#### 1. Complementarity of Paradigms

- SEO ensures fundamental visibility by optimizing websites for search engines.
- AEO enables direct-answer performance by structuring content for snippets, FAQs, and voice queries.
- GEO elevates content into AI-mediated synthesis, ensuring authority and trust signals in generative contexts.

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#### 2. Authority and Trust as a Common Core

Across all three paradigms, content credibility was found to be a decisive factor. Sources that exhibit expertise, transparent authorship, and external citations consistently perform better in SERPs, snippets, and AI responses.

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#### Content Structure as a Key Driver

The use of structured data (e.g., schema markup), clear formatting (H2/H3 headers, lists, FAQs), and concise explanations enhances discoverability across all three optimization layers.

#### 4. **Metrics Are Diverging**

- SEO: rankings, organic traffic, backlinks.
- AEO: snippet share, voice impressions, zero-click traffic.
- GEO: citation frequency in AI-generated responses, entity mentions, authority weighting. These new metrics suggest that organizations must expand their analytics frameworks to account for AIdriven visibility.

#### **4.2 Proposed Integrated Framework**

The study proposes a three-layer integrated optimization framework. Each layer builds upon the previous, creating a holistic approach to digital visibility.

## Layer 1: SEO (Foundation)

- Objective: Establish baseline discoverability.
- Practices: Technical SEO (site speed, mobile optimization), semantic keyword usage, backlink acquisition, on-page optimization.
- *Output*: Stable SERP presence.

#### Layer 2: AEO (Answer Optimization)

- *Objective*: Surface content in snippets, voice, and direct-answer contexts.
- **Practices**: Schema markup (FAQ, HowTo, Q&A), concise and structured answers, conversational query alignment.
- *Output*: Zero-click visibility through snippets and panels.

#### Layer 3: GEO (Generative Optimization)

- *Objective*: Ensure inclusion in AI-synthesized outputs.
- **Practices**: Entity recognition, explicit authorship, authoritative citations, semantic segmentation of content, regularly updated information.
- Output: Citations and visibility in AI-generated responses across chatbots and generative search engines.

#### 4.3 Case Evidence

The framework was evaluated against secondary case insights:

Healthcare Websites (e.g., Mayo Clinic, WebMD): Strong SEO foundations combined with FAQ schema allow them to dominate snippets (AEO). Recent studies show they are frequently cited in AI-generated summaries (GEO), reflecting authority and entity strength.

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- *E-commerce Brands (e.g., Amazon, Shopify Stores)*: While SEO ensures catalog visibility, those implementing structured Q&A and rich metadata (AEO) see improved product visibility in voice queries. GEO is still limited but evolving as AI models incorporate product reviews and structured product feeds.
- Educational Institutions (e.g., universities publishing research FAQs): Pages with concise definitions and transparent citations have been incorporated into ChatGPT and Google SGE responses, reflecting early GEO alignment.

#### 4.4 Summary of Findings

The comparative analysis and case evaluation confirm that isolated optimization approaches are no longer sufficient. Organizations focusing only on SEO risk losing visibility in zero-click contexts. Those prioritizing AEO without GEO may appear in snippets but not in AI-generated content. GEO, while emerging, cannot function without the foundation of SEO and the structuring practices of AEO.

Thus, the proposed framework demonstrates that SEO + AEO + GEO = sustainable visibility in the AI-driven search era.

#### 5. Discussion

#### **5.1 Theoretical Contributions**

This study advances academic discourse in three ways:

#### 1. Integration of Fragmented Domains

Previous research has treated SEO, AEO, and GEO as separate phenomena. By synthesizing them into a unified framework, this paper contributes a holistic model of digital optimization in the AI era. This model parallels broader information retrieval theories, extending them into generative contexts.

#### 2. Expansion of Metrics in Information Retrieval

Traditional SEO research has relied on rankings, clicks, and traffic as success indicators (Evans, 2007). This study introduces new evaluative dimensions-AI citation frequency, entity mentions, and zero-click visibility-broadening how optimization effectiveness is conceptualized in digital scholarship.

#### 3. Bridging Practice and Theory

By drawing on both academic and industry sources, the framework connects real-world practices with conceptual models. This ensures that theory is grounded in practice while also offering practitioners academically validated direction.

## **5.2 Practical Implications**

For practitioners, the integrated framework offers a roadmap for action:

## • Step 1: Secure SEO Foundations

Without technical optimization (fast load times, mobile responsiveness, clean architecture), neither AEO nor GEO efforts will succeed.

#### • Step 2: Implement AEO Enhancements

Organizations should incorporate schema markup, structured FAQs, and conversational query responses. These not only support snippets but also align with GEO-friendly formatting.

#### • Step 3: Advance toward GEO

Content should be authoritative, cited, and entity-rich. Including transparent authorship, referencing credible sources, and updating information regularly increases chances of being cited by AI systems.

#### • Step 4: Monitor Expanded Metrics

Practitioners must look beyond rank to track snippet share, voice impressions, AI citations, and zero-click

 outcomes. Integrating tools that measure AI visibility (e.g., emerging GEO analytics platforms) will become essential.

#### **5.3 Ethical Considerations**

The integration of GEO and AEO introduces ethical and policy challenges:

#### 1. Attribution and Fair Use

Generative models often synthesize content without clear attribution, raising concerns about intellectual property and authorship recognition. Scholars argue that optimization should not only target visibility but also ensure fair credit to content creators (Chen et al., 2025).

#### 2. Accuracy and Trustworthiness

When AI systems misinterpret or misrepresent content, misinformation risks escalate. Optimizers must prioritize fact-checking, transparent sourcing, and authoritative content to safeguard information quality.

#### 3. Equity of Access

Smaller organizations may lack resources to implement GEO effectively, creating a visibility gap that favors established, well-funded entities. Policymakers and researchers should explore frameworks to prevent algorithmic visibility inequality.

#### **5.4 Limitations**

Although the framework offers strong conceptual value, limitations must be acknowledged:

- *Rapidly Changing Landscape*: AI search systems evolve faster than academic research cycles, meaning strategies may require continual adjustment.
- *Conceptual Nature*: The absence of empirical validation (e.g., experiments, surveys) limits generalizability.
- *Industry-Specific Variations*: Optimization strategies may differ significantly across sectors (e.g., healthcare vs. retail), which this study addresses broadly but not in depth.

#### **5.5 Future Research Directions**

To strengthen and expand this framework, future research should pursue:

#### 1. Empirical Validation

Controlled experiments could test whether applying AEO and GEO practices measurably increases AI citation frequency and snippet share compared to SEO-only strategies.

### 2. Cross-Industry Studies

Sector-specific research (e.g., legal, medical, e-commerce) could reveal unique optimization challenges and sectoral adaptations.

## 3. *User-Centric Perspectives*

Studies should examine how users perceive and trust AI-generated answers and whether optimization practices influence perceptions of credibility.

#### 4. Policy-Oriented Inquiry

Exploration of copyright, fair attribution, and ethical AI governance will become increasingly important as optimization influences not only visibility but also public knowledge ecosystems.

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#### 6. Conclusion

The evolution of search from keyword-driven SERPs to AI-generated and answer-based outputs has fundamentally altered the digital visibility landscape. Traditional Search Engine Optimization (SEO), while still necessary, no longer guarantees meaningful reach in environments where users increasingly interact with featured snippets, voice assistants, and generative engines. This study developed a three-layer integrated framework that unites SEO, Answer Engine Optimization (AEO), and Generative Engine Optimization (GEO).

The framework illustrates that SEO provides the technical foundation, AEO enables direct-answer visibility, and GEO ensures inclusion in AI-synthesized responses. Together, these paradigms offer a comprehensive roadmap for optimizing visibility in the AI-driven search era.

Theoretically, this paper advances understanding by integrating fragmented research streams, proposing new evaluation metrics (AI citations, zero-click visibility), and foregrounding ethical challenges in optimization. Practically, it equips organizations with actionable strategies-prioritizing structured content, entity recognition, and authoritative sourcing-while emphasizing the need for continuous monitoring of evolving metrics.

Future research should empirically validate the framework across industries, investigate user trust in AI-generated answers, and address ethical concerns around attribution and misinformation. By bridging academic insight and practical strategy, this study provides a foundation for sustainable optimization in a rapidly shifting information ecosystem.

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