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The Evolution of Arbitration in the Digital Era: Opportunities and Challenges

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Abstract

Arbitration, long valued for its privacy, efficiency, and flexibility, has undergone significant change with the integration of digital technologies. In the digital age, arbitration proceedings have become quicker, more accessible, and economically viable. Developments such as virtual hearings, online document submissions, digital evidence management, and the use of artificial intelligence in managing cases have enabled parties from different regions to resolve disputes without the usual logistical and financial burdens. This transition was further propelled by the COVID-19 pandemic, which forced arbitral bodies and professionals globally to embrace digital tools and remote procedures as standard practice.

While digitalization offers significant advantages to the arbitration process, it also introduces a variety of complex challenges that demand careful attention. Key concerns include cybersecurity threats, data privacy issues, procedural fairness, unequal access to technology among disputing parties, and the enforceability of arbitral awards issued through virtual proceedings. Moreover, the shift to remote hearings raises concerns about the diminished human interaction, which may impact the evaluation of witness credibility and the effectiveness of oral advocacy.

This paper critically analyzes both the potential benefits and the inherent challenges of arbitration's digital transformation. It investigates how prominent arbitral bodies such as the ICC, SIAC, and LCIA have revised their procedural frameworks to integrate technology, and examines how various jurisdictions are addressing the resulting legal and procedural complexities. The paper also emphasizes the importance of developing robust guidelines and best practices to uphold fundamental arbitration principles like confidentiality, neutrality, and due process in a digital context. Ultimately, the study concludes that while digital advancements have largely enhanced arbitration, maintaining its legitimacy and effectiveness requires a balanced, well-regulated approach.

Keywords: Arbitration, Digital Era, Online Dispute Resolution, Virtual Hearings, Cybersecurity, Procedural Fairness, Artificial Intelligence, Enforceability of Arbitral Awards

1. Introduction

Arbitration has long been regarded as a reliable alternative to litigation, appreciated for its adaptability, confidentiality, and procedural efficiency. Over time, it has evolved to meet the changing demands of commercial entities, industries, and international legal systems. One of the most significant developments in recent years has been the incorporation of digital technologies into arbitral practices. Innovations such as virtual hearings, online filings, digital evidence management, and AI-powered tools have revolutionized traditional arbitration, enhancing its accessibility, speed, and cost-efficiency.



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The COVID-19 pandemic accelerated this technological shift, compelling arbitral institutions and professionals to quickly transition to digital platforms. Virtual hearings transitioned from being a rare exception to a routine practice, prompting institutions like the ICC, SIAC, and LCIA to revise their procedural frameworks to support digital engagement. Consequently, modern arbitration has moved beyond the confines of physical venues and geographical limitations.

However, this digital transformation brings with it several opportunities and challenges. While technology enhances access, reduces costs, and expedites dispute resolution, it also raises concerns over cybersecurity, confidentiality, procedural fairness, and enforceability of arbitral awards. Furthermore, technological disparities between parties, particularly between those from developed and developing regions, present significant obstacles to achieving equitable outcomes.

This paper critically examines the evolution of arbitration in the digital era. It analyses the opportunities offered by technological advancements, the legal and procedural challenges that arise, and the adaptations made by arbitral institutions and jurisdictions worldwide. Finally, it assesses the future trajectory of arbitration in a world increasingly shaped by digital innovation.

2. Evolution of Arbitration and the Rise of Digital Technologies

cross-border disputes grew in complexity and volume.

Arbitration has traditionally been favored over litigation by parties seeking a confidential, efficient, and impartial mechanism for resolving disputes. Tracing its roots to ancient times when merchants informally resolved conflicts, arbitration has undergone substantial transformation to align with the complexities of global trade and cross-border dealings. By the end of the twentieth century, it had developed into a formalized, institution-based system, regulated by comprehensive procedural frameworks established by prominent organizations such as the International Chamber of Commerce (ICC), the London Court of International Arbitration (LCIA), and the International Centre for Settlement of Investment Disputes (ICSID). Despite this modernization, arbitration remained heavily reliant on physical interactions: hard-copy submissions, in-person hearings, and oral examinations of witnesses.² The initial integration of technology into arbitration was slow and incremental. In the early 2000s, arbitral tribunals began accepting electronic communications via email, and parties experimented with the submission of soft copies of documents. While helpful, these early technological integrations did not fundamentally change the nature of arbitral proceedings; the reliance on physical hearings and face-to-face interaction persisted. Nevertheless, pressure mounted for more efficient mechanisms, particularly as

Several notable initiatives emerged to promote the use of technology. Institutions introduced electronic case management systems, and some tribunals started allowing video conferencing for preliminary procedural meetings. Technologies such as e-discovery also entered the arbitral landscape, particularly in arbitrations involving document-heavy disputes like construction and intellectual property cases. Yet, by and large, such tools remained optional, and parties often preferred traditional methods to preserve the perceived formality and credibility of the process.

A significant transformation took place with the outbreak of the COVID-19 pandemic in early 2020. Global lockdowns and travel restrictions forced tribunals and parties to rapidly reimagine dispute resolution without physical contact. The pandemic served as a catalyst, pushing institutions to issue

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¹ Thomas Schultz, Information Technology and Arbitration: A Practitioner's Guide, 4 J. Int'l Arb. 31 (2003).

² Alan Redfern, Technology in International Arbitration: From Fax Machines to Blockchain, 34 Arb. Int'l 131, 133 (2018).



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emergency protocols and guidance notes on virtual hearings, electronic submissions, and remote witness examinations. In many respects, what might have taken decades to achieve occurred almost overnight.

In April 2020, the ICC released a Guidance Note on Potential Measures to Address the Impact of the COVID-19 Pandemic, promoting the adoption of videoconferencing, digital platforms, and electronic submissions. That same year, the London Court of International Arbitration amended its Arbitration Rules to formally acknowledge the legitimacy of virtual hearings and granted tribunals the authority to conduct proceedings electronically, even without party consent when suitable. Similarly, the Singapore International Arbitration Centre (SIAC) revised its practice directions to facilitate remote hearings, permit the electronic signing of arbitral awards, and normalize online submissions.

Technological integration extended beyond mere substitution of physical elements with virtual ones. Artificial Intelligence (AI) started being employed in more advanced ways, such as predictive analytics of case outcomes, document review automation, and even early-stage risk assessment of disputes. AI-driven platforms could sift through thousands of pages of evidence, identifying key documents and relevant precedents at speeds no human team could match. Some scholars even suggested that in the future, AI might play a role in suggesting procedural orders or summarizing factual records for arbitrators.

Blockchain technology has also emerged as a promising tool in the field of arbitration. With the use of smart contracts—self-executing digital agreements embedded within blockchain code—parties can incorporate dispute resolution clauses that automatically initiate arbitration once certain conditions are met. Additionally, blockchain offers the ability to maintain immutable, tamper-resistant records of evidence, enhancing the integrity and transparency of document handling. While these advancements offer improved efficiency, they also raise concerns about preserving arbitrators' discretion and the procedural flexibility traditionally associated with arbitration.

Virtual hearing platforms designed specifically for arbitration, such as Opus 2, Immediation, and Maxwell Chambers' Virtual ADR services, emerged to meet the demand for secure, high-quality online proceedings. These platforms addressed critical concerns like confidentiality, secure transmission of documents, and real-time transcription. Importantly, they also introduced features such as private breakout rooms for party consultations, which attempted to replicate physical hearing dynamics.

However, the rapid technological adaptation was not without concerns. Many practitioners voiced skepticism regarding the security of virtual hearings, citing risks of hacking, unauthorized recording, and breaches of confidentiality. In a profession where trust and integrity are paramount, these risks could undermine the legitimacy of the entire process if not properly managed. Moreover, not all parties had equal access to the required technology or stable internet connections, raising issues of procedural fairness and the potential for prejudice against less technologically equipped parties.

Despite the challenges, there is a broad agreement among arbitral institutions and practitioners that technology is now an integral element of modern arbitration. Rather than being a temporary response to an extraordinary crisis, digital arbitration is increasingly recognized as a lasting component of the dispute resolution landscape.

In essence, the transition of arbitration into the digital age marks a significant redefinition of its traditional framework. Freed from geographical and physical constraints, arbitration has adopted a hybrid approach that merges technological innovation with core values such as party autonomy, neutrality, and procedural fairness. Although this transformation is still evolving, it offers a promising



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path toward a more accessible, efficient, and adaptable arbitration system in today's interconnected global environment.

3. Challenges in Digital Arbitration

While the digitalization of arbitration presents numerous advantages, it is not without its challenges. The rapid technological advances that have transformed arbitration also introduce new risks, hurdles, and ethical dilemmas that both parties and arbitrators must navigate. These challenges need to be addressed carefully to ensure that the integrity of arbitration remains intact and that the system remains fair, transparent, and secure. The transition to digital arbitration raises critical issues in the realms of **security and confidentiality**, **fairness and equality of access**, **technological limitations**, and **legal and ethical concerns**. Each of these must be addressed to create a balanced and robust framework for digital arbitration.

3.1 Security and Confidentiality Concerns

One of the most pressing challenges in digital arbitration is maintaining security and confidentiality. Privacy is a cornerstone of arbitration, and many parties opt for this method specifically because it allows for confidential dispute resolution away from public scrutiny. However, the transition to digital platforms has introduced significant cybersecurity risks. Tools such as video conferencing software, online portals, and electronic document systems are vulnerable to hacking, data breaches, and unauthorized access. Cyber attackers can exploit system weaknesses, potentially exposing sensitive information like trade secrets, personal data, or privileged communications.

These concerns are heightened in international arbitration, where parties from multiple jurisdictions may be subject to differing data privacy standards. Digital materials such as evidence, emails, and virtual hearing recordings may fall under local data protection laws, complicating cross-border proceedings. Regulations like the European Union's General Data Protection Regulation (GDPR) and similar laws in other regions impose stringent requirements on how personal data is handled and stored. In this digital era, safeguarding electronic communications has become essential to preserving the secure and private nature of arbitration.

Moreover, the growing dependence on cloud storage and digital case management systems raises important questions about the long-term accessibility and security of data. It is crucial for arbitrators, legal counsel, and disputing parties to ensure that the digital platforms they use are both secure and compliant with international data protection standards. In response, some arbitral institutions have implemented safeguards like end-to-end encryption, two-factor authentication, and secure data storage protocols to address these vulnerabilities. Nonetheless, ensuring that these digital systems are sufficiently resilient remains a significant challenge. Without adequate protections, the confidentiality of arbitration proceedings could be compromised, ultimately threatening the process's integrity and trustworthiness.³⁴

3.2 Fairness and Equality of Access

Another concern arising from the digitalization of arbitration is **fairness and equality of access**. Arbitration is supposed to provide a level playing field for all parties involved. However, as arbitration shifts to digital platforms, disparities in access to technology may affect the fairness of the process. Not all parties have equal access to high-speed internet, modern computer systems, or the technical expertise required to navigate digital platforms. In some regions, poor internet infrastructure, limited access to technology, or unreliable electricity may hinder a party's ability to participate in arbitration proceedings



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effectively. This could create a situation where wealthier parties or those based in more technologically advanced countries have a distinct advantage over others.

Moreover, virtual hearings, which have become common during the COVID-19 pandemic, may not be equally accessible to all participants. For example, the ability to participate in a video conference, particularly with high-quality video and audio, may be compromised by inadequate technology or poor internet connections, especially in developing or remote areas. This imbalance could lead to procedural unfairness, where one party is disadvantaged simply because they lack the technological infrastructure to fully participate in the proceedings. Some arbitrators may also lack familiarity with the digital platforms being used, which could further undermine the fairness of the process.

To mitigate these risks, arbitral institutions must take a proactive stance in addressing technological access challenges. It is essential that all parties involved can access and navigate the digital platforms used in arbitration. This can be achieved by providing training for both arbitrators and participants, offering technological support, and utilizing user-friendly platforms to ensure equitable access to the process. In cases where disparities in access exist, adjustments to the procedures may be necessary, such as providing in-person hearings or offering alternative communication methods for parties unable to utilize the required digital tools for arbitration.

3.3 Technological Limitations and Reliability

Despite the many advantages that technology brings, it also has inherent **limitations and reliability issues**. Virtual hearings, for instance, rely heavily on stable internet connections, which may not always be available or reliable. Interruptions in the video or audio during a hearing can disrupt the proceedings, lead to misunderstandings, or result in the loss of critical information. Connectivity issues could potentially interfere with witness testimony, evidence presentation, or even the arbitrator's ability to hear arguments from the parties involved. This creates the risk that some parties might be disadvantaged due to factors beyond their control.

Moreover, not all technical platforms are created equal. Some online platforms may lack important features, such as real-time transcription, secure document management, or effective tools for cross-examining witnesses. If the platform fails or lacks certain functionalities, the smooth flow of the arbitration may be hampered, leading to delays and inefficiencies. Tribunals must carefully choose the digital tools they employ, ensuring that the chosen technology meets the needs of the case and provides a reliable, secure environment for the arbitration process.

Another challenge posed by technology is the adaptation of arbitrators and legal counsel to new digital tools. While younger or more tech-savvy professionals may easily adjust to digital platforms, older practitioners or those with limited experience may face difficulties in transitioning to virtual arbitration. It is essential that arbitrators and counsel receive comprehensive training in using these digital tools to ensure that proceedings run smoothly and efficiently. In some instances, the steep learning curve associated with new technologies may disrupt the arbitration process and lead to delays.

3.4 Legal and Ethical Concerns

Lastly, the digitalization of arbitration raises several legal and ethical challenges. A key legal issue is jurisdiction in online arbitrations. Due to the international nature of arbitration, questions may arise about which country's laws apply, especially when digital platforms are used for hearings and document management. As digital platforms often operate across multiple jurisdictions, this can lead to legal complexities, particularly if a dispute arises concerning the arbitration process, such as the validity of an award or the enforcement of a decision. Jurisdictional concerns, along with differing national standards



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for recognizing and enforcing arbitral awards, create uncertainty about how digital arbitration will be treated in various countries.

Ethically, digital arbitration brings up questions regarding the integrity of the process. For instance, the use of AI-powered tools to assist with case management or predict outcomes could challenge the perceived impartiality of arbitrators. While AI is designed to be objective, its algorithms are based on historical data, which may be biased or incomplete, potentially leading to decisions influenced more by statistical trends than by the merits of the case. Similarly, employing blockchain technology to store arbitral records raises concerns about whether all parties will have equal access to or control over the data stored on the blockchain.

Furthermore, issues related to due process in virtual hearings arise. The lack of in-person hearings could affect the ability of arbitrators to assess witness credibility or interpret body language during testimony. While virtual hearings are efficient, they may not always offer the same level of personal interaction as face-to-face hearings, potentially impacting the quality of decision-making, as non-verbal cues can be harder to gauge in a virtual setting.

4. The Future of Digital Arbitration

As technology progresses, the future of arbitration is inextricably linked to digital transformation. The growing reliance on digital platforms, AI, blockchain, and other technological advancements indicates that arbitration is poised for substantial change. However, the adoption of these technologies also raises important questions about the future of traditional arbitration methods, the role of human arbitrators, and the wider implications for the legal profession. This section will explore potential future developments in digital arbitration, the evolving role of technology, and the advantages and challenges that these innovations may introduce to dispute resolution.

4.1 The Role of Artificial Intelligence in Shaping the Future of Arbitration

One of the most significant ways in which digital technology will influence the future of arbitration is through the application of Artificial Intelligence (AI). AI has the potential to transform various facets of arbitration, including case management, decision-making, and document review. AI-powered tools are already assisting arbitrators by managing large volumes of information, enabling them to efficiently and accurately sift through documents, identify relevant precedents, and predict case outcomes. AI's capacity to analyze vast datasets and provide insights into trends in arbitral decisions will continue to influence how disputes are resolved.

In the future, AI may take on more advanced roles traditionally performed by human arbitrators. For instance, AI could be used to automatically determine the outcomes of certain disputes based on established precedents and reasoning patterns. This could streamline the arbitration process, reducing delays, particularly in cases involving routine legal issues or standardized contracts. While AI decision-making is still in its early stages, it shows great potential to enhance the efficiency and consistency of arbitral awards.

Additionally, AI-driven predictive analytics may become an essential tool for helping parties make more informed decisions about whether to settle or proceed with arbitration. By analyzing historical data, AI systems could estimate the likelihood of success in a given case, providing parties with more accurate risk assessments. This would enable businesses and individuals to make more informed decisions, reducing uncertainty and promoting more effective dispute resolution.⁴³



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However, as AI becomes increasingly integrated into arbitration, concerns regarding bias and fairness must be carefully addressed. AI systems are only as reliable as the data they are trained on, and any biases present in the data could be reflected in the decisions made by AI. This raises important ethical issues surrounding the use of AI in dispute resolution, and ensuring transparency and fairness will be crucial for the widespread acceptance of AI in arbitration.

4.2 Blockchain Technology: A Game-Changer for Arbitration

Another technology poised to revolutionize the future of arbitration is blockchain. Blockchain is a decentralized, tamper-proof ledger that enables secure, transparent transactions without the need for intermediaries. While it is most commonly associated with cryptocurrencies, its potential applications in arbitration extend far beyond financial transactions.

In arbitration, blockchain could be used to securely store evidence, monitor case progress, and even record arbitral awards. The inherent immutability of blockchain ensures that once a record is added, it cannot be altered or erased, making it an ideal solution for preserving the integrity of arbitral proceedings. By storing case files, submissions, and arbitral decisions on a blockchain, parties can be confident that their documents are secure and cannot be tampered with.

Additionally, smart contracts—self-executing agreements written in code and stored on the blockchain—could transform the execution of arbitration agreements. When specific conditions are met, smart contracts could automatically trigger arbitration proceedings, reducing delays and removing the need for human intervention. For example, in commercial contracts, a smart contract could automatically initiate arbitration if a dispute arises, ensuring swift action without the need for manual input. This would significantly lower the time and costs typically associated with traditional dispute resolution methods.

However, despite its potential, blockchain's role in arbitration is still in the early stages of development. While several institutions and companies are exploring its use, substantial legal and regulatory challenges must be addressed before it can become a mainstream tool in dispute resolution. Issues related to jurisdiction and the cross-border enforcement of blockchain-based arbitral awards need to be resolved. Furthermore, the use of blockchain in arbitration raises privacy concerns, as some jurisdictions have strict data protection laws that may conflict with the transparency inherent in blockchain. Nevertheless, blockchain offers great promise for the future of arbitration, particularly in enhancing security, efficiency, and transparency.

4.3 The Integration of Hybrid Models of Dispute Resolution

As arbitration continues to evolve, a hybrid model of dispute resolution may develop, blending traditional and digital methods. For example, some arbitration proceedings might begin with digital tools, such as virtual hearings and electronic document management, and later shift to in-person meetings or hearings when required. Hybrid models could also integrate elements of mediation or conciliation, utilizing digital platforms to facilitate negotiations before arbitration commences.

The future of arbitration could involve a more tailored and flexible approach to dispute resolution, where technology is applied according to the specific needs of each case. For instance, a dispute involving a large multinational corporation might benefit from entirely digital arbitration processes, including virtual hearings, AI-powered analysis, and blockchain-based evidence storage. Conversely, a smaller, simpler dispute may be resolved through a hybrid model, using limited technology to streamline the process while preserving personal interaction and human judgment.



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Such hybrid models could promote more efficient dispute resolution while retaining the advantages of traditional arbitration, such as the expertise of experienced arbitrators and the option for in-person hearings. As technology continues to advance, the arbitration field may find that a combination of digital tools and conventional practices provides the most effective path forward.

4.4 The Changing Role of Arbitrators

As digital technologies become more prevalent in arbitration, the role of the **arbitrator** will evolve. Traditional arbitration has long relied on the expertise and judgment of human arbitrators to resolve disputes. However, as digital tools become more sophisticated, the role of the arbitrator may shift from being the sole decision-maker to one who oversees a more automated process, ensuring fairness, managing procedural issues, and making final determinations when necessary.

Arbitrators will need to master digital tools, including AI-powered case management systems, virtual hearing platforms, and blockchain technology. They will also need to adjust to emerging ethical and legal challenges, such as ensuring the fairness of AI-driven decisions and safeguarding the confidentiality of digital evidence. This will necessitate ongoing education and training, along with a readiness to adopt new technological advancements.

The future of arbitration may also involve **collaboration** between human arbitrators and AI systems. AI could assist arbitrators by providing insights into past decisions, identifying trends, and helping arbitrators make more informed decisions. This collaboration could help improve the efficiency and consistency of arbitral awards, while still preserving the expertise and judgment of human arbitrators.

4.5 The Potential for Widespread Adoption

Looking ahead, the widespread adoption of digital arbitration is inevitable. As more arbitration institutions embrace digital platforms and technologies, the benefits of digital arbitration—such as cost savings, increased accessibility, and improved efficiency—will become more evident. The global nature of business and the increasing complexity of disputes will also drive demand for arbitration that can be conducted remotely and digitally.

Simultaneously, the legal and regulatory frameworks governing digital arbitration will need to adapt to ensure that digital tools are employed in a manner that upholds the principles of fairness, confidentiality, and due process. As nations and regions strive to harmonize laws related to digital dispute resolution, the future of digital arbitration will become more standardized, guaranteeing that it is legally robust and broadly recognized.

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