

# The Arbitration Clause in International Automotive Industry Contracts: Implementation Challenges and Solutions

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As a strategic and capital-intensive sector, the automotive industry relies extensively on international contracts in which the formulation of dispute-resolution mechanisms—particularly arbitration clauses—plays a decisive role in sustaining cross-border cooperation and attracting investment and technology. Seeking to address a gap in the international commercial law literature, the present study examines arbitration in international automotive industry contracts through the framework of the “legal engineering of arbitration clauses” and in relation to sanctions, technology-transfer requirements, and the enforcement constraints of the Iranian legal system. To this end, an analytical-comparative method is employed, together with an examination of contractual documents and relevant arbitral practices, to assess the practical operation of arbitration clauses in automotive contracts, with particular emphasis on Iran’s experience. The findings indicate that the ineffectiveness of arbitration in many automotive contracts does not arise from the nature of international arbitration itself; rather, it results from the non-specialized drafting of arbitration clauses, their incompatibility with the technological characteristics of such contracts, and insufficient attention to the legal and enforcement limitations arising from sanctions. The article argues that arbitration can be transformed into an effective instrument for risk management, strengthening foreign investors’ confidence, and enhancing the role of joint venture agreements in the development of Iran’s automotive industry only through the precise legal engineering of arbitration clauses—including the strategic selection of the arbitral institution and seat of arbitration, the incorporation of sanctions-resilient mechanisms, and the coordinated drafting of complementary contractual provisions.

**Keywords:** international arbitration, arbitration clause, international automotive industry contracts

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## 1. Introduction

Structural transformations in the global automotive supply chain in recent years—particularly following the COVID-19 pandemic, geopolitical tensions, and fluctuations in energy markets—have significantly increased contractual and legal risks in this industry. In a study entitled *Top Legal Issues Facing the Automotive Industry in 2022*, Mark Ailo and colleagues argue that the global automotive supply chain has undergone fundamental changes and that suppliers and vehicle manufacturers must substantially reassess their existing

contracts from the perspectives of risk management, pricing, logistics, inventory, and transportation costs. According to these authors, increased supply-chain volatility has further highlighted the need for contractual flexibility and the incorporation of effective dispute-resolution mechanisms (Ailo, 2021).

As one of the most strategic sectors of the global economy, the automotive industry not only makes a substantial contribution to countries’ gross domestic product and employment but also depends heavily on a complex network of international contracts, including



joint venture agreements, technology-transfer agreements, component-supply contracts, licensed-production agreements, and research and development collaborations. This contractual complexity increases the likelihood of legal and technical disputes and makes recourse to national courts particularly challenging because of their limited technical expertise, protracted proceedings, and considerations of state sovereignty. Under such circumstances, international arbitration has acquired a special position in automotive industry contracts as one of the most effective and widely accepted methods of resolving commercial disputes (Moses, 2017).

At the international level, authoritative instruments and institutional frameworks, such as the 1958 New York Convention, the UNCITRAL Arbitration Rules, and the Arbitration Rules of the International Chamber of Commerce (ICC), have established a relatively harmonized framework for the recognition and enforcement of arbitral awards. By emphasizing party autonomy and the transnational enforceability of arbitral awards, these instruments play an important role in strengthening legal certainty in international contracts (Kronke & Nacimiento, 2010; Mistelis & Lew, 2003). Nevertheless, authoritative studies indicate that the effective implementation of arbitration clauses, particularly in complex and technology-intensive industries such as the automotive sector, continues to encounter legal, operational, and institutional obstacles (Born, 2014).

This situation becomes even more complex in developing countries and economies subject to political and economic pressures, including Iran. Before the intensification of sanctions, the Iranian automotive industry had become integrated into the global automotive value chain through international collaborations and joint venture agreements. Following the disruption of these collaborations, however, the industry faced an accumulation of contractual, technological, and financial disputes (Panahi & Mahmoudi, 2021). In this context, the inadequacy of traditional dispute-resolution mechanisms, particularly domestic judicial proceedings, has become increasingly evident, thereby heightening the importance of arbitration as a specialized, transnational, and flexible institution for managing disputes in the automotive industry. Accordingly, a detailed examination of the

position of arbitration clauses and the challenges associated with their implementation in international automotive contracts is not merely a theoretical matter but also a practical and strategic necessity for Iranian automotive enterprises. Within the Iranian legal context, these challenges assume additional complexity. According to the analysis of Panahi, Mahmoudi, and Habibi Dargah, the enforcement of arbitral awards arising from international automotive industry contracts encounters difficulties such as the service of documents, delays in enforcement proceedings, the absence of a specialized arbitral institution for the automotive sector, discrepancies between national standards and international requirements, and restrictions arising from domestic regulations and international sanctions (Panahi et al., 2022). These factors not only reduce the effectiveness of arbitration but, in some cases, also undermine foreign parties' confidence in incorporating arbitration clauses into contracts concluded with Iranian automotive companies. Accordingly, the principal question of this study is what legal, operational, and institutional challenges affect arbitration clauses in international automotive industry contracts, particularly in the contractual relationships of Iranian companies, and what measures can improve the effectiveness and enforceability of such clauses under Iran's particular legal and economic conditions. Using a descriptive-analytical approach and drawing on authoritative domestic and international sources, this article explains the theoretical framework of arbitration in the automotive industry, examines the existing challenges, and ultimately proposes practical and context-specific solutions for Iranian automotive companies.

## 2. Theoretical Framework and Legal Foundations of International Arbitration

### 2.1. Definition and Position of Arbitration

As one of the principal methods of resolving international commercial disputes, arbitration is a private, consensual process founded on the parties' autonomy, under which the parties agree in advance to submit their existing or potential disputes to one or more impartial and independent arbitrators. Under this mechanism, arbitrators assume jurisdiction in place of national courts, and their awards are regarded as binding and enforceable upon the parties within the

framework of the relevant international instruments (Born, 2014).

The theoretical foundation of international arbitration rests on the principle of party autonomy. This principle permits the parties to determine not only whether their disputes will be referred to arbitration but also its fundamental elements, including the number of arbitrators, the substantive law governing the dispute, the procedural rules, the arbitral institution, and the seat of arbitration. Recognized in most legal systems and international instruments, this principle plays a decisive role in increasing predictability and legal certainty in transnational commercial relations (Redfern et al., 2015).

The position of arbitration within international commercial law has been significantly strengthened, particularly in complex and technology-oriented contracts. Scholars maintain that arbitrators' specialized expertise, the confidentiality of proceedings, the relative speed of the arbitral process, and the transnational enforceability of arbitral awards make arbitration a preferable option compared with litigation before national courts (Moses, 2017). These advantages are particularly important in industries such as the automotive sector, where disputes frequently involve technical, multilayered matters governed by specialized standards.

From the perspective of international law, the 1958 New York Convention constitutes a turning point in consolidating the position of arbitration. By requiring contracting states to recognize and enforce foreign arbitral awards, the Convention has transformed arbitration into an effective and reliable institution for resolving cross-border disputes. In parallel, the UNCITRAL Arbitration Rules and the ICC Arbitration Rules have provided flexible procedural frameworks that play an important role in standardizing arbitral proceedings and strengthening the confidence of economic actors (Mistelis & Lew, 2003).

Ultimately, international arbitration may be regarded not merely as an alternative dispute-resolution mechanism but as an integral component of the legal architecture of international commercial contracts. Nevertheless, the actual effectiveness of arbitration in practice depends on the quality of the arbitration clause and the extent to which it conforms to the legal and enforcement requirements of each jurisdiction. In

international automotive industry contracts, particularly those involving Iranian companies, this matter is accompanied by specific challenges that require closer examination.

## 2.2. International Instruments and Rules Governing Arbitration

International arbitration has developed through a body of binding instruments and transnational rules that share the objective of reducing disparities among national legal systems and establishing a relatively harmonized framework for resolving cross-border commercial disputes. While respecting state sovereignty, these instruments provide the legal basis necessary for effective arbitration by limiting the intervention of national courts and reinforcing the autonomy of arbitration agreements. The importance of this framework is particularly pronounced in industries such as the automotive sector, where contracts are frequently long-term, multilayered, and involve technology transfer.

**a) The 1958 New York Convention and the Transnational Enforcement of Arbitral Awards:** The 1958 New York Convention on the Recognition and Enforcement of Foreign Arbitral Awards is regarded as the backbone of the international arbitration system. Its principal function is to impose an international obligation on contracting states to recognize arbitration agreements and enforce awards rendered in other contracting states. This obligation has effectively elevated arbitration from a purely contractual mechanism to an institution supported by transnational enforcement guarantees (Kronke & Nacimiento, 2010).

A central feature of the New York Convention is that the grounds for refusing recognition and enforcement of an arbitral award are exhaustively and narrowly defined. This approach prevents national courts from adopting expansive interpretations and engaging in unjustified intervention, while strengthening the finality of arbitral awards. This characteristic is particularly important in international automotive industry contracts, in which enforcement may be sought in several jurisdictions, because it plays a key role in reducing legal risk and increasing the predictability of contractual relations (Born, 2014). Nevertheless, practical experience demonstrates that the effective implementation of the New York Convention depends on the extent to which

domestic judicial practice conforms to the object and purpose of the Convention. In certain jurisdictions, including Iran, this issue creates difficulties during the enforcement of arbitral awards and directly affects the effectiveness of arbitration clauses.

**b) The UNCITRAL Arbitration Rules and Institutional Flexibility:** The UNCITRAL Arbitration Rules, as one of the most important sets of ad hoc arbitration rules, were developed to provide a neutral and flexible model for international arbitration. The 2013 amendments strengthened transparency, efficiency, and the role of appointing authorities, thereby consolidating the Rules' position in international commercial contracts (Mistelis & Lew, 2003).

A prominent feature of the UNCITRAL Arbitration Rules is their adaptability to the parties' particular needs. This feature constitutes an important advantage in complex automotive industry contracts, such as supply-chain agreements, technology-licensing contracts, and joint ventures. Nevertheless, the absence of a comprehensive institutional framework may, in some cases, produce procedural disputes or delays in the arbitral process. This problem underscores the importance of carefully specifying supplementary mechanisms in the arbitration clause (Redfern et al., 2015).

**c) The ICC Arbitration Rules and Quality Assurance in Arbitral Proceedings:** The ICC Arbitration Rules represent a prominent model of advanced institutional arbitration that combines procedural flexibility with institutional supervision, thereby providing the parties with a high degree of legal certainty. Mechanisms such as the preliminary examination of jurisdiction, active case management, and scrutiny of arbitral awards by the ICC Court are among the factors that ensure the international credibility of this arbitral system (Redfern et al., 2015). In international automotive industry contracts, which typically involve substantial financial values and significant technical and economic risks, ICC arbitration is considered a desirable option because of the expertise of its arbitrators and the broad international acceptance of its awards (Panahi et al., 2022). Nevertheless, high costs and restrictions arising from international sanctions create serious practical obstacles for Iranian automotive companies seeking to use this institution, thereby necessitating consideration of alternative or hybrid arrangements.

**d) Soft-Law Instruments and the Completion of Procedural Gaps in Arbitration:** In addition to binding instruments, various soft-law instruments, such as the International Bar Association Rules on the Taking of Evidence in International Arbitration, play a supplementary role in developing arbitral practice. Although these instruments are not directly legally binding, arbitrators and parties frequently rely on them as accepted professional standards. They therefore contribute to the harmonization of practices and greater transparency in arbitral proceedings (Moses, 2017).

The body of international instruments and rules governing arbitration has established a relatively coherent framework for resolving cross-border commercial disputes. Nevertheless, the practical effectiveness of this framework in international automotive industry contracts depends on the design of the arbitration clause, the informed selection of arbitral rules and institutions, and the compatibility of the domestic legal system with international standards. In the case of Iranian companies, institutional and enforcement restrictions have created a significant gap between the theoretical capacity of these instruments and their practical implementation.

### 3. Legal and Regulatory Challenges in International Automotive Industry Contracts

Because international automotive industry contracts combine commercial, technical, and sovereign elements, they create a context in which complex legal challenges concerning arbitration clauses may arise (Redfern et al., 2015). These challenges result not only from the international character of such contracts but also from the interaction among diverse legal systems, governmental industrial policies, and specific technology-transfer requirements. Consequently, the arbitration clause is transformed from a simple contractual provision into a sensitive and strategic legal institution.

#### 3.1. Diversity of Legal Systems and Its Effect on the Interpretation and Validity of Arbitration Clauses

One of the most fundamental challenges in the arbitration of international automotive industry contracts is the diversity of the legal systems governing the contracting parties. Such contracts are often concluded between companies governed by common-

law, civil-law, or mixed legal systems, which may differ in their understanding of fundamental concepts such as the separability of the arbitration clause, the competence-competence principle, and the arbitrability of disputes (Born, 2014).

This issue assumes particular importance in the automotive industry because many disputes lie at the intersection of purely commercial matters and issues influenced by governmental public policy. In some legal systems, disputes concerning strategic industrial production, joint investment, or technology transfer may be regarded as non-arbitrable or, at a minimum, subjected to intensive supervision by national courts. This situation may undermine the validity of the arbitration clause or render it ineffective at the enforcement stage (Redfern et al., 2015).

### *3.2. Conflict of Laws and the Multilayered Legal Framework Governing Arbitration*

Conflict-of-laws issues arise structurally in automotive contracts. Such contracts generally involve four distinct legal layers: (1) the law governing the contract, (2) the law governing the arbitration agreement, (3) the law of the seat of arbitration, and (4) the law of the jurisdiction in which enforcement is sought. Failure to distinguish consciously among these layers in the arbitration clause may result in serious procedural and substantive disputes, particularly where the law governing the contract adopts a restrictive approach to arbitration while the law of the arbitral seat is arbitration-friendly. In automotive industry contracts, these conflicts frequently arise in connection with technical standards, product liability, environmental requirements, and intellectual property rights. A lack of clarity in identifying the applicable law not only increases the cost and duration of arbitration but also undermines the predictability and enforceability of the resulting award (Born, 2014).

### *3.3. State Intervention, Public Policy, and the Strategic Nature of the Automotive Industry*

In many countries, the automotive industry is regarded as a strategic sector and a principal driver of economic development; it is therefore subject to extensive governmental regulation and intervention. Protective policies, localization requirements, customs tariffs, foreign-exchange restrictions, and technology-transfer

regulations may all affect contractual performance and any resulting arbitration (Ailo, 2021).

Such interventions may result in contractual disputes being characterized as involving public-policy considerations. Under such circumstances, national courts may refuse to recognize or enforce an arbitral award by invoking economic or industrial public policy. This possibility challenges the fundamental rationale of international arbitration, namely neutrality and the finality of arbitral awards (Redfern et al., 2015).

### *3.4. Legal and Institutional Barriers to Arbitration in the Iranian Legal System*

Arbitration-related challenges assume additional dimensions in international automotive industry contracts involving Iranian companies. Restrictions arising from domestic laws, Central Bank supervisory requirements, foreign-exchange regulations, and the need to obtain specific authorizations for concluding or performing foreign contracts may obstruct the smooth conduct of arbitral proceedings (Panahi et al., 2022). Furthermore, Iran's non-membership in important investment-arbitration conventions, particularly the Convention on the Settlement of Investment Disputes between States and Nationals of Other States (ICSID Convention), has deprived certain disputes involving investment and technology transfer in the automotive sector of effective international arbitration mechanisms. Moreover, domestic judicial practice concerning the interpretation of public policy and the supervision of foreign arbitral awards does not always fully conform to the standards of the New York Convention, thereby limiting the enforceability of arbitral awards in practice. The legal and regulatory challenges affecting arbitration in international automotive industry contracts demonstrate that arbitration in this field is not merely a dispute-resolution instrument but an institution dependent on the legal environment, industrial policy, and institutional structures of states. In Iran, the gap between the theoretical framework of international arbitration and domestic legal and enforcement realities underscores the need to reconsider the drafting of arbitration clauses and the selection of alternative or supplementary mechanisms. This issue is directly connected to the legal solutions discussed in the subsequent section of this study (Panahi & Mahmoudi, 2021).

#### 4. Operational and Technical Challenges of Arbitration Clauses in International Automotive Industry Contracts

In addition to legal and regulatory challenges, arbitration in international automotive industry contracts encounters various operational and technical obstacles that directly affect the effectiveness of arbitration clauses (Carlevaris & Giacomo, 2018). These challenges primarily arise from the complex structure of the contracts, the technical nature of the disputes, and the high sensitivity of the matters in controversy.

##### 4.1. Complex Contractual Structures and Multiparty Contractual Relationships

International automotive industry transactions are frequently structured as networks of interconnected contracts, including component-supply agreements, technology-licensing contracts, joint ventures, technical-service agreements, and numerous subcontracts. This multilayered and multiparty structure creates uncertainty concerning the actual parties to the dispute and the scope of the arbitration clause (Redfern et al., 2015).

Under such circumstances, a fundamental question arises as to whether an arbitration clause incorporated into the principal contract may be extended to third parties, affiliated companies, or subcontractors. The absence of a clear answer may result in parallel proceedings before different forums and undermine arbitration's function of consolidating related disputes. This challenge highlights the need to expressly provide mechanisms for joinder or extension of the arbitration clause during the drafting of the contract (Panahi et al., 2022).

##### 4.2. Practical Challenges in the Enforcement of Arbitral Awards

The enforcement of an arbitral award constitutes the final and decisive stage in assessing the effectiveness of international arbitration. Although the 1958 New York Convention provides a relatively effective framework for the transnational enforcement of arbitral awards, enforcement frequently encounters practical obstacles. These include difficulties in serving documents, delays in recognition and enforcement proceedings, and expansive interpretations by national courts of public-

policy exceptions. According to the analysis of Panahi and colleagues, delays in enforcing arbitral awards and practical difficulties in identifying and attaching the assets of the award debtor are among the most significant enforcement challenges in disputes involving Iranian companies (Panahi et al., 2022). These difficulties reduce foreign parties' confidence in arbitration and, in some cases, encourage them to prefer alternative dispute-resolution methods or avoid contractual cooperation altogether.

##### 4.3. Confidentiality, Intellectual Property, and the Protection of Sensitive Technologies

The protection of technical and commercial confidentiality is one of the principal concerns of parties involved in automotive industry arbitration. Disputes in this area frequently involve information concerning component design, control software, manufacturing technologies, and research and development data, the disclosure of which may have serious competitive and security consequences (Moses, 2017).

Although arbitration generally offers a higher degree of confidentiality than judicial proceedings, such confidentiality is not absolute, and information may be disclosed unless appropriate contractual safeguards are adopted. Accordingly, the incorporation of detailed provisions governing confidentiality, access to documents, and ownership of the results of the arbitration, whether in the arbitration clause or in ancillary agreements, is of critical importance in automotive industry contracts.

#### 5. Cultural and Managerial Challenges in the Arbitration of International Automotive Industry Contracts

Beyond legal and technical challenges, cultural and managerial factors also play a decisive role in the success or failure of international arbitration. Although these factors are non-legal in nature, they may affect contractual interpretation, the manner in which claims are presented, and even arbitrators' assessment of the parties' conduct (Humphrey & Memedovic, 2003).

##### 5.1. Linguistic Differences and Commercial Practices

Differences in language and commercial practices constitute a concealed but influential source of disputes

in international automotive industry contracts. Divergent understandings of concepts such as good faith, the duty to cooperate, or the limits of managerial authority may result in misunderstandings and disputes (Humphrey & Memedovic, 2003).

During arbitration, these differences may influence the presentation of evidence, the interpretation of documents, and even the assessment of witness testimony. Selecting the language of arbitration and establishing clear rules for contractual interpretation are among the measures that may prevent this challenge from escalating (Redfern et al., 2015).

### 5.2. Differences in Negotiation and Dispute-Management Styles

Negotiation and dispute-management styles are strongly influenced by the parties' cultural and organizational backgrounds. Comparative studies indicate that Asian companies generally emphasize long-term relationships, mutual trust, and the gradual resolution of disputes, whereas European and American companies tend to adopt a rule-oriented approach based on precise contractual provisions. These differences may lead to misunderstandings concerning the counterparty's conduct during arbitration and may even influence assessments of good faith or the extent of the parties' cooperation. In international automotive industry contracts, attention to these differences and the incorporation of tiered dispute-resolution mechanisms, such as negotiation and mediation before arbitration, may play an effective role in reducing tensions and improving the efficiency of arbitration (Rezaei, 2020).

Overall, the operational, technical, cultural, and managerial challenges affecting arbitration in international automotive industry contracts demonstrate that successful arbitration depends not only on the legal validity of the arbitration clause but also on intelligent drafting, effective dispute management, and a thorough understanding of the technical and cultural context of the cooperation. In Iran, these challenges operate synergistically and further reinforce the need for a comprehensive and realistic approach to drafting arbitration clauses.

## 6. Practical Dimensions of Arbitration in the Automotive Industry

Arbitration in the automotive industry should be understood as more than a dispute-resolution mechanism; it should be regarded as an institution for regulating complex technological, capital, and managerial relationships. The inherent characteristics of the industry—including capital-intensive investment, dependence on advanced technologies, transnational supply chains, and highly sensitive safety standards—have made arbitration structurally important in ensuring the stability and predictability of international collaborations (Born, 2014). The practical dimensions of arbitration in the automotive industry demonstrate that it performs functions extending beyond dispute resolution and constitutes one of the principal components of the legal architecture of international automotive cooperation.

### 6.1. Arbitration in Automotive Joint Venture Agreements

Joint venture agreements in the automotive industry are generally concluded to facilitate technology transfer, localize production, improve competitive capacity, and gain access to export markets. Nevertheless, the experience of the Iranian automotive industry demonstrates that achieving these objectives, particularly in international collaborations following the Joint Comprehensive Plan of Action, has been accompanied by significant structural and legal challenges. An examination of the industry indicates that, although Iran occupied a relatively favorable position in global automotive industry rankings before the intensification of sanctions, the severe fluctuations resulting from sanctions and the withdrawal of foreign partners destabilized contractual collaborations and weakened the practical outcomes of joint ventures (Panahi & Mahmoudi, 2021).

According to the analysis of Panahi and colleagues, a substantial proportion of disputes between Iranian automakers and their foreign partners have arisen from ambiguity in interpreting managerial obligations, decision-making structures, the boundaries of corporate control, and the allocation of authority between the parties to joint venture agreements (Panahi et al., 2022). In the context of the technological and financial dependence of domestic enterprises, these ambiguities

have generated complex and protracted disputes and have effectively limited the Iranian party's ability to enforce its contractual rights.

From a legal perspective, automotive joint ventures in Iran generally involve long-term obligations, phased investment, and national strategic interests. Under such circumstances, recourse to domestic courts is associated with serious risks because of protracted proceedings, limited technical expertise in industrial disputes, and the possibility of governmental intervention. The withdrawal or suspension of cooperation by certain foreign automotive companies following the intensification of sanctions demonstrates that the absence of effective and impartial dispute-resolution mechanisms weakened the legal position of the Iranian parties and rendered certain key obligations ineffective, including technology-transfer and export commitments (Panahi & Mahmoudi, 2021). Within this framework, international arbitration, by providing institutional neutrality, specialized arbitrators, and confidentiality, may serve as an appropriate mechanism for resolving disputes without causing the complete collapse of industrial cooperation.

From a practical perspective, arbitration clauses in Iranian automotive joint venture agreements should be designed to expressly and effectively cover disputes concerning managerial control, veto rights, share transfers, the fulfillment of technology-transfer obligations, restrictions arising from domestic foreign-investment laws, and the conditions governing the foreign partner's withdrawal or suspension of cooperation. Otherwise, arbitration will not only fail to perform its protective function in preserving cooperation but may itself become a new source of legal disputes because of uncertainty regarding jurisdiction or scope.

## 6.2. Arbitration in Automotive Component Supply-Chain Disputes

The automotive supply chain is one of the most complex production and commercial networks in the world. It comprises multiple tiers of suppliers, subcontractors, and manufacturers of safety-critical components, whose precise coordination is essential for maintaining quality standards and production schedules. Disputes arising from delayed delivery, reduced component quality, breaches of safety requirements, or nonconformity with

technical standards are among the most common matters referred to arbitration in this field (Redfern et al., 2015).

Nevertheless, compared with the global model, the structure of Iran's automotive supply chain has particular characteristics that affect the manner in which disputes are resolved. A substantial proportion of Iranian component suppliers are small and medium-sized enterprises that are highly dependent technologically and financially on major domestic automakers (Rezaei, 2020). This dependence discourages suppliers from initiating claims or pursuing contractual rights through arbitration, and many disputes are instead resolved through informal channels, such as governmental intervention or recommendations by industry associations. Consequently, arbitration has not yet acquired an established position as a professional legal mechanism within the domestic supply chain.

According to the findings of Panahi and Mahmoudi, the Iranian automotive industry was able to benefit to some extent from joint-production models with foreign automakers following the Joint Comprehensive Plan of Action. However, after the withdrawal of international partners, the domestic supply chain experienced severe disruption in access to technology and raw materials (Panahi & Mahmoudi, 2021). This experience demonstrates that the absence of effective and coordinated arbitration clauses in interconnected supply-chain contracts may result in successive disputes and inconsistent decisions. In certain cases, domestic suppliers and foreign parties have initiated proceedings before different forums without an integrated mechanism for resolving multiparty disputes. From a legal perspective, this situation reveals a deficiency in the network-based drafting of arbitration clauses, which is routinely incorporated into automotive contracts in advanced international models (Born, 2014).

Accordingly, arbitration in Iran's automotive supply chain will be effective only when its design reflects the networked structure of the contractual relationships. In other words, the arbitration clause should be drafted so that all parts of the supply chain—from first-tier contractors to lower-tier suppliers—are subject to a single forum or compatible arbitration system. Furthermore, appointing arbitrators with expertise in automotive engineering and technical standards will

facilitate the resolution of complex engineering and commercial disputes and prevent contradictory awards. From a strategic perspective, Iranian automotive companies should draw on multiparty arbitration models used in Europe and East Asia to establish a “specialized domestic arbitration mechanism for the automotive industry.” Such an institution should be capable of resolving disputes among production units, suppliers, and foreign partners in an integrated and professional manner. In addition to reducing legal costs, such an institution could strengthen foreign partners’ confidence in future collaborations (Panahi et al., 2022). In this manner, arbitration in Iran’s automotive supply chain would be transformed from a purely *ex post* dispute-resolution mechanism into a preventive instrument for managing contractual risks, improving transparency, and maintaining production continuity (Rezaei, 2020). This transformation is particularly important in light of sanctions, financial restrictions, and domestic technological dependence.

### 6.3. Arbitration in Intellectual Property and Technology-Transfer Disputes

Intellectual property and technology transfer constitute the core of international cooperation in the automotive industry. Technology-transfer agreements in this sector typically encompass the transfer of technical know-how, engineering plans and designs, control software, manufacturing methods, industrial prototypes, and the training of local personnel. Breaches of obligations associated with this process—including unauthorized use beyond the contractual framework, disclosure of trade secrets, or failure to accomplish genuine knowledge transfer—may give rise to complex, costly, and protracted disputes (Ginsburg & Lucas, 2014).

These disputes assume particular importance in the Iranian automotive industry. Automotive joint venture agreements in Iran are generally structured in phases, with investment followed by technology transfer and, ultimately, the export of a portion of the manufactured products. Practical experience, however, indicates that the technology-transfer stage—particularly the transfer of in-depth knowledge and the capacity for independent utilization—has frequently encountered difficulties. In many cases, the principal problem has not been deliberate obstruction by the foreign partner but rather limited absorptive capacity, inadequate personnel

training, and the absence of an effective legal framework compelling the foreign party to effectuate genuine knowledge transfer (Panahi et al., 2022).

From a legal perspective, disputes concerning intellectual property and technology transfer in Iran face serious limitations within the domestic judicial system, including a shortage of technical expertise, concerns regarding the disclosure of sensitive information, and the absence of effective confidential procedures. Under such circumstances, arbitration—particularly specialized intellectual property arbitration—offers significant advantages over judicial proceedings, including confidentiality, the ability to appoint arbitrators possessing both technical and legal expertise, and procedural flexibility. The arbitration rules of the World Intellectual Property Organization (WIPO) provide a specialized framework for resolving complex international disputes concerning intellectual property, technology transfer, and the licensing of technical know-how, which now constitute the core of international automotive industry contracts.

The WIPO Arbitration Rules are specifically suited to disputes arising from joint ventures, research and development collaborations, patent licensing, software integration, and confidential manufacturing processes—elements on which cross-border automotive cooperation increasingly depends. The appointment of arbitrators with technical and legal expertise in intellectual property, combined with procedural flexibility and strong confidentiality safeguards, makes the WIPO Arbitration Rules particularly effective in disputes in which the protection of proprietary technologies and trade secrets is critical (Born, 2014; Ginsburg & Lucas, 2014).

From a practical perspective, the importance of the WIPO Arbitration Rules is enhanced in jurisdictions affected by institutional and geopolitical restrictions, including Iran. Empirical evidence from international joint venture agreements in the Iranian automotive industry indicates that failures in effective technology transfer and the premature termination of cooperation, particularly following the reimposition of sanctions, have generated disputes primarily concerning intellectual property rights, incomplete transfers of technical knowledge, and breaches of confidentiality obligations (Mirzazadeh et al., 2022). Under such circumstances, WIPO arbitration offers a functional

advantage because it reduces dependence on politically sensitive arbitral institutions while providing a neutral and technically specialized forum for resolving complex technological disputes. Nevertheless, the actual effectiveness of WIPO arbitration in automotive contracts depends heavily on the quality of the arbitration clause, particularly the precise definition of arbitrable intellectual property disputes, the applicable law, and mechanisms for mitigating enforcement and payment risks under sanctions. The experience of the Iranian automotive industry further demonstrates that the effectiveness of arbitration in technology-related disputes depends substantially on the precise legal engineering of the arbitration clause and supplementary contractual provisions. In many technology-transfer agreements, the ownership of transferred knowledge, rights of use, the status of subsequent improvements, and confidentiality obligations have been formulated in vague or general terms. Such ambiguity not only increases the likelihood of disputes but may also generate jurisdictional and interpretive controversies during arbitration and even jeopardize the technological security of the parties (Panahi et al., 2022).

It is therefore necessary for arbitration clauses in Iranian automotive contracts to be designed so that, first, disputes concerning ownership of the results of the arbitration, technical data disclosed, and documents submitted during the proceedings are expressly covered by confidentiality obligations; second, the scope of permitted use of transferred technology following termination or suspension of the contract—particularly under sanctions or upon the withdrawal of the foreign partner—is clearly defined; and third, disputes concerning the failure to achieve effective technology transfer and train local personnel are expressly designated as arbitrable claims. Otherwise, arbitration in the fields of intellectual property and technology transfer will not become a protective mechanism for Iranian automotive enterprises and may instead create a context for the unintended disclosure of sensitive technologies and the weakening of their competitive position. Accordingly, within the Iranian automotive industry, arbitration must be designed and implemented as part of a broader strategy for technology management and the reduction of risks arising from technological dependence.

#### 6.4. Comparative Case Analysis: Automotive Arbitration at the Regional Level

A comparative analysis of international automotive arbitration in Middle Eastern and West Asian countries demonstrates that the effectiveness of arbitration depends less on the nature of the dispute, its technical complexity, or even the selected arbitral institution than on the quality of the arbitration clause and its conformity with the specific characteristics of the automotive industry. This conclusion has repeatedly been emphasized in analytical reports and comparative studies and indicates that poorly drafted arbitration clauses may render even the most advanced institutional arbitration mechanisms ineffective (Carlevaris & Giacomo, 2018; Mistelis & Lew, 2003). An examination of arbitration cases arising from assembly agreements, component-supply contracts, and automotive joint ventures in several regional countries demonstrates that general, ambiguous, or unsuitable arbitration clauses have directly resulted in jurisdictional disputes, prolonged proceedings, and, in some instances, the ineffectiveness of arbitral awards. Common deficiencies in these cases include failure to distinguish between the law governing the principal contract and the law governing the arbitration clause, silence regarding the seat of arbitration and the resulting opportunity for domestic judicial intervention, the use of standardized and non-specialized arbitration clauses, and the absence of explicit provisions concerning confidentiality, the language of arbitration, and the technical qualifications of arbitrators (Humphrey & Memedovic, 2003). Available analyses further indicate that a substantial proportion of these disputes become entangled in procedural objections and jurisdictional challenges before the merits are considered, which is clearly inconsistent with the underlying rationale of arbitration as a rapid, specialized, and effective dispute-resolution mechanism (Born, 2014; Redfern et al., 2015).

By contrast, an analysis of successful automotive arbitrations in certain regional countries, particularly projects conducted jointly with European and East Asian companies, demonstrates that the precise, forward-looking, and industry-specific design of arbitration clauses plays a decisive role in the success of the arbitral process. In these cases, the arbitration clause is not treated as a formal contractual provision but is designed as part of the “legal architecture of the contract.” It

includes a clear determination of the law governing the contract and the arbitration clause, the selection of a neutral arbitral seat, the designation of an arbitral institution experienced in industrial disputes, and the possibility of appointing arbitrators with technical expertise in the automotive industry. Furthermore, detailed confidentiality provisions, particularly in contracts involving technology transfer and intellectual property, have played an important role in strengthening the parties' confidence and sustaining contractual cooperation (Mistelis & Lew, 2003).

Comparative studies further demonstrate that, in such cases, not only is the likelihood of obtaining an arbitral award significantly increased, but the awards also encounter less resistance and fewer obstacles in domestic enforcement proceedings. This indicates that properly drafting the arbitration clause not only facilitates the determination of the merits but also reduces reliance on public policy and limits subsequent judicial intervention. These findings are particularly important for Iranian automakers because Iran's specific legal, structural, and sanctions-related restrictions intensify the negative consequences of poorly drafted arbitration clauses. Regional experience demonstrates that using general, translated, or industry-inappropriate arbitration clauses exposes Iranian automakers to jurisdictional disputes, domestic judicial intervention, and serious enforcement difficulties to a greater extent than other market participants. By contrast, adopting a proactive, specialized, and strategic approach to drafting arbitration clauses can provide an effective mechanism for managing legal risk and improving investment security in international automotive collaborations (Panahi et al., 2022).

Overall, the comparative case analysis of automotive arbitration at the regional level demonstrates that arbitration can perform its actual function in the automotive industry only when it is treated as part of contractual strategy and risk management rather than merely as a standardized provision placed at the end of the contract. The quality of the arbitration clause lies at the intersection of law, industry, and contractual policymaking, and its role in the success or failure of automotive arbitration—particularly in legally sensitive regional contexts—is both fundamental and undeniable.

## 7. The Impact of Sanctions and Iranian Restrictions on Arbitration in International Automotive Industry Contracts

International sanctions and the resulting legal and institutional restrictions constitute one of the most decisive external variables in assessing the effectiveness of arbitration in international automotive industry contracts involving Iranian parties. Unlike many arbitration challenges that are interpretive or contractual in nature, sanctions directly affect the structure of industrial cooperation, the possibility of continuing contractual performance, and the practical feasibility of arbitration. Their effects are therefore not limited to the enforcement stage. An examination of the relevant studies further demonstrates that, following the Joint Comprehensive Plan of Action, the Iranian automotive industry once again moved toward integration into the global automotive value chain by concluding joint venture agreements with international companies such as Peugeot and Citroën, and it even anticipated improving its international position. However, the reimposition of sanctions and the sudden withdrawal of foreign partners not only terminated these collaborations but also generated numerous contractual, investment, and technology-transfer disputes whose resolution through the contractually prescribed mechanisms encountered serious difficulties (Panahi & Mahmoudi, 2021). This experience demonstrates that sanctions in the Iranian automotive industry are not merely economic or political factors but directly contribute to the ineffectiveness of dispute-resolution mechanisms, including arbitration. In many such contracts, arbitration clauses were drafted without considering the possible reimposition of sanctions, the foreign partner's withdrawal, or the obstruction of financial channels. In practice, this transformed arbitration from a risk-management instrument into an additional source of legal uncertainty (Panahi et al., 2022).

The first practical manifestation of this situation is the restricted access of Iranian parties to reputable international arbitral institutions. Although institutions such as the International Chamber of Commerce have not formally prohibited arbitrations involving Iranian parties, the acceptance and administration of cases, the appointment of arbitrators, and even administrative communications have, in certain instances, been affected

by the sanctions regulations of third states (Mirzazadeh et al., 2022). In automotive disputes, which are frequently technical, time-sensitive, and dependent on production continuity, this problem significantly reduces the effectiveness of arbitration.

In addition to these institutional restrictions, domestic studies demonstrate that the structure of Iranian automotive investments and joint ventures was designed in a manner that left the principal financial and operational burdens with the Iranian party when the foreign partner withdrew (Panahi & Mahmoudi, 2021). Under such circumstances, difficulties arising from banking sanctions—including the inability to pay arbitration costs and arbitrators' fees or to implement the financial aspects of an award—further compound the challenges of arbitration (Mistelis & Lew, 2003). In addition to sanctions, domestic legal and institutional barriers affect the effectiveness of arbitration in Iranian automotive industry contracts. Requirements that certain public entities obtain authorization before referring disputes to arbitration, the complexity of foreign-exchange regulations, and expansive interpretations of public policy at the recognition and enforcement stage increase the unpredictability of arbitration (Born, 2014; Panahi et al., 2022). Iran's non-membership in the ICSID Convention has also made foreign investors more cautious in accepting arbitration arrangements for major automotive projects involving Iranian parties.

Another fundamental deficiency in Iranian automotive contracts has been the failure to incorporate legal measures appropriate to sanctions-related conditions at the drafting stage. This deficiency has contributed not only to the collapse of industrial cooperation but also to limitations on the effective resolution of disputes through arbitration (Panahi et al., 2022). Overall, the combination of empirical data from the Iranian automotive industry and the international arbitration literature indicates that arbitration can be effective under sanctions only when the arbitration clause is designed strategically and realistically. Selecting an appropriate arbitral seat, providing alternative payment mechanisms, and carefully engineering the arbitration clause in light of domestic and international restrictions can preserve arbitration as an effective risk-management instrument in Iran's international automotive industry contracts, even under sanctions.

## 8. Operational and Legal Solutions for Managing Arbitration in Iran's International Automotive Industry Contracts

The findings of the preceding sections demonstrate that the ineffectiveness of arbitration in international automotive industry contracts involving Iranian companies is attributable less to any inherent deficiency in arbitration than to the failure to align the arbitration clause with Iran's institutional restrictions, sanctions-related limitations, and domestic legal requirements. Accordingly, the proposed solutions are presented not as general recommendations but as specific drafting and regulatory instruments.

**1) Selecting an Accessible Arbitral Institution:** The selection of an accessible arbitral institution should be based on an operational assessment of its institutional capacity, prior experience in sanctions-related cases, and ability to administer proceedings without disruption caused by the regulatory controls of third states. Institutional prestige alone is insufficient; rather, the "capacity to administer the dispute effectively" under sanctions should constitute the principal criterion for selecting an arbitral institution. Failure to consider this factor may expose the arbitration clause to practical suspension or operational ineffectiveness (Panahi et al., 2022).

**2) Providing for Arbitration in a Third Country:** The selection of a neutral third country as the seat of arbitration should be regarded as a key means of reducing the risk of judicial intervention and facilitating enforcement. Choosing an arbitral seat in a jurisdiction with arbitration-friendly judicial practice—particularly one that interprets public policy narrowly and respects the separability of the arbitration clause—plays a decisive role in the validity and enforceability of the award. This choice is structurally important in automotive contracts, which are frequently long-term, capital-intensive, and technologically complex (Redfern et al., 2015).

**3) Managing Financial and Foreign-Exchange Risks:** Financial and foreign-exchange risks associated with arbitration should be expressly addressed in the contractual architecture. Specifying the currency of payment, establishing alternative payment mechanisms, using contractual guarantees and insurance instruments, and separating financial obligations arising from the arbitral award from the contract's operational financial

flows are among the measures that may protect enforcement from banking restrictions. In the absence of such arrangements, even a final arbitral award may remain devoid of practical effect (Born, 2014).

**4) Consulting International Lawyers and Sanctions Specialists:** The systematic involvement of international lawyers and sanctions specialists should be institutionalized as part of the contract-drafting process. The simultaneous analysis of arbitration law, sanctions law, and domestic mandatory rules facilitates the identification of concealed risks and the formulation of flexible provisions. Practical experience indicates that many arbitration disputes involving Iranian parties originate in contractual decisions made without a prior sanctions assessment (Panahi et al., 2022).

**5) Designing Contracts Resilient to Legal and Sanctions-Related Restrictions:** Designing a “contract resilient to legal and sanctions-related restrictions” requires the integration of sanctions-risk analysis into the contractual text rather than merely including a general reference to force majeure. Within this framework, the direct and indirect consequences of sanctions should be expressly and separately addressed in relation to the parties’ principal and ancillary obligations, including financial obligations, technology transfer, component supply, after-sales services, and intellectual property rights. Drafting a force majeure clause without clarifying the status of sanctions—particularly secondary sanctions and extraterritorial regulations—may result in a narrow interpretation by arbitrators and rejection of the claimed contractual exemption (Mistelis & Lew, 2003). It is therefore essential to distinguish conceptually and functionally between a force majeure clause and a hardship clause and to define precisely the consequences of each for the suspension, adaptation, or termination of the contract.

**6) Determining the Relationship Between Contractual Obligations and Domestic Mandatory Rules:** The boundaries of this relationship must be expressly specified in the contract, particularly within the Iranian legal system, which imposes restrictions on the referral of certain disputes to arbitration and the performance of international obligations. Failure to clarify this relationship, especially in multilayered and long-term automotive contracts, may confront arbitrators with a conflict between party autonomy and public-policy rules and may generate complex

interpretive disputes (Panahi et al., 2022). Under such circumstances, incorporating adaptation clauses and contractual review mechanisms may prevent legal and sanctions-related restrictions from producing arbitral deadlocks.

**7) Establishing and Incorporating a Domestic Mechanism:** The establishment of specialized intra-industry arbitration mechanisms may complement international arbitration. Designing arbitral panels comprising legal arbitrators and automotive technical experts, particularly for technical, quality-related, and operational disputes, can reduce costs and duration while preventing the unnecessary internationalization of disputes. Subject to legislative support, these mechanisms may gradually develop into a specialized domestic arbitral institution capable of coordinating with international arbitration proceedings (Panahi et al., 2022).

**8) Conditional Accession to ICSID:** At the macro-policy level, consideration may be given to Iran’s conditional and phased accession to the ICSID Convention as a means of strengthening foreign investors’ confidence and improving legal certainty in major industrial projects, including those in the automotive sector. Although such accession requires careful consideration of constitutional and public-policy concerns, comparative experience indicates that the absence of access to investment-arbitration mechanisms significantly increases the legal costs of international projects (Panahi et al., 2022).

Overall, these solutions demonstrate that arbitration will be effective for Iranian companies involved in international automotive industry contracts only when it is designed as an instrument of legal risk management during the pre-contractual stage. Failure to address these considerations transforms arbitration from a competitive advantage into a point of vulnerability.

## 9. Discussion and Conclusion

International arbitration in automotive industry contracts, as one of the most complex mechanisms for resolving cross-border commercial disputes, operates at the intersection of legal, technical, economic, and geopolitical factors. The findings of this study demonstrate that, in an industry heavily dependent on multilayered supply chains, the transfer of sensitive technologies, research and development collaborations,

and continuous interaction among heterogeneous legal systems, an arbitration clause can no longer be regarded merely as a standardized contractual provision. Rather, it must be designed and implemented as a strategic instrument for managing legal and economic risk. Disregarding this reality, particularly under conditions of geopolitical instability and sanctions, deprives arbitration of its protective function and transforms it into a new source of legal uncertainty.

These challenges are amplified in the Iranian automotive industry. Domestic legal restrictions on referring disputes to arbitration, expansive interpretations of public policy, banking and foreign-exchange barriers arising from sanctions, practical difficulties in serving documents and enforcing arbitral awards, and Iran's non-membership in certain key institutions for resolving investment disputes have all cast serious doubt on the practical effectiveness of international arbitration in many automotive contracts. An empirical examination of automotive joint venture agreements demonstrates that deficiencies in the drafting of arbitration clauses, particularly in matters involving technology transfer and intellectual property, have played a decisive role in generating unresolved disputes and the premature withdrawal of foreign partners. This experience clearly reveals the inadequacy of generalized contractual approaches.

Nevertheless, the findings of this study indicate that adopting an integrated approach that combines the theoretical foundations of international arbitration with practical contractual-engineering instruments can render a substantial proportion of these limitations manageable. The informed selection of an arbitral institution appropriate to the nature of the dispute, particularly in the fields of intellectual property and technology transfer; the designation of a neutral and highly enforceable arbitral seat; the provision of alternative payment and enforcement mechanisms under sanctions; and the precise drafting of provisions such as force majeure clauses, hardship clauses, adaptation clauses, and contractual review mechanisms are among the instruments capable of increasing the resilience of automotive contracts against legal and political shocks.

Ultimately, international arbitration is not an optional or ceremonial choice for the Iranian automotive industry but a structural necessity for sustainable integration into

the global economy and the attraction of investment and technology. Achieving the actual effectiveness of arbitration requires a transition from general recommendations and predetermined contractual templates toward the precise legal engineering of arbitration clauses, the gradual reform of the domestic legal framework, and the development of a professional contract-drafting culture within automotive enterprises. Such a transformation could convert arbitration from a costly and high-risk mechanism into a reliable instrument for effectively resolving disputes, strengthening foreign investors' confidence, and sustaining international cooperation in the strategically important automotive industry.

### Authors' Contributions

Authors contributed equally to this article.

### Declaration

In order to correct and improve the academic writing of our paper, we have used the language model ChatGPT.

### Transparency Statement

Data are available for research purposes upon reasonable request to the corresponding author.

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