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The Conductor as the Architect of Choral Sound: Conducting Strategies and Applied Exercises for Optimizing Blend and Expressiveness in Musical Performance

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Abstract: The conductor as the architect of choral sound represents a central figure in the evolution of modern choral music in Romania. The combination of gestural strategy with a profound understanding of acoustic concepts ensures a remarkable balance between science and art. This synthesis, which involves a harmonious integration of technical knowledge and aesthetic sensitivity, transforms the interpretative process into a complex and captivating experience, in which each note becomes an element of a sound painting of rare depth. Thus, the choir's performance becomes not merely a musical execution, but a manifestation of an elaborate artistic vision, where every gesture and every acoustic adjustment contribute to shaping a sound that bears the unmistakable imprint of the conductor—the true architect of choral sound.

Key-words: Conductor, choral music, choir, sound, modern choral music, performance, gestural strategy, acoustic concepts, exercises.

1. Introduction

The choral conductor plays an essential role in shaping the ensemble's sound and in conveying the emotional content of the music to the audience. The interaction between conducting gestures, acoustic perception, and the neuroscience underlying the understanding of these processes highlights the complexity of a conductor's work. In this context, the purpose of this article is to analyze the importance of conducting gestures in the context of choral music and to explore how these gestures influence ensemble performance. Additionally, the impact of acoustics and neuroscience on how the conductor shapes choral interpretation will be examined.

Through their gestures, the conductor plays an active role in shaping the choir's musical interpretation. They not only coordinate the ensemble but directly influence the sound flow of the performance. Within a choral ensemble, the

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conductor is the one who helps achieve a unified sound and express musical unity. The importance of conducting gestures is particularly significant in a choral setting, where the accuracy of synchronization among vocalists is essential.

The conductor's role goes beyond merely keeping time; they use gestures to convey the subtleties of musical expressiveness, bringing to the forefront not just the technical, but also the emotional dimension of the work. In this way, the conductor profoundly influences the sound characteristics of the choral ensemble, shaping both rhythm and musical phrasing.

The conducting gesture is a fundamental tool for achieving efficient coordination and establishing a dialogue between the conductor and the choral ensemble. Every movement of the conductor holds specific meaning and is used to control dynamics, tempo, and musical nuances. Moreover, the expressiveness of gestures plays a central role in communicating the emotional essence of the music.

An important aspect is that the conductor does not lead solely through physical movements, but through the emotional engagement of the entire body. They use their hands, facial expressions, and posture to convey musical information to the ensemble, and the effects of these gestures manifest in the choral performance, influencing how the voices blend and how they are perceived by the audience.

2. Choral Interpretation

Choral interpretation is a collective artistic expression, in which human voices unite harmoniously to deliver musical experiences rich in depth and emotion. This form of performance not only highlights the technical mastery of each individual singer but also emphasizes the importance of ensemble unity and the emotional intensity conveyed through music.

Both the history and the essence of choral art reveal that the success of a choir's sound and its artistic outcomes depend greatly on the conductor's ability to shape the ensemble. The diversity and complexity of working with a choir, as well as the capacity to integrate, refine, and balance each sound element, represent the main challenge for any conductor.

A clear and harmonious sound is achieved through a set of indispensable components such as ensemble cohesion, intonation accuracy, interpretive subtleties, and vocal techniques—including sound awareness, breath control, optimal sound placement, diction, articulation, sound production methods, and techniques for attacking and relaxing the tone.

A choir is not merely a group of singers, but a truly living creative instrument. Just like any high-quality musical instrument, where each component must be flawless, all elements that make up the choir must be refined and harmonized in

order to reach optimal performance. The quality of a choral ensemble's sound is the result of a complex interaction between acoustic factors, interpretative techniques, and artistic sensitivity.

A choir's sound must not be regarded as a static phenomenon, but as a dynamic entity dependent on numerous parameters. Timbre homogeneity is one of the main requirements for achieving a balanced sound. Each vocal section must blend harmoniously within the ensemble, and individual differences in vocal timbre must be minimized through unified vocal technique and careful coordination of sound emission. Equally important is intonation, a key element in assessing choral sound quality. Accurate intonation depends on interval control, pitch stability, and collective resonance, thereby avoiding unintended dissonances.

In addition, dynamics and phrasing flexibility play a crucial role in the expressiveness of the ensemble. A well-trained choir must be able to employ a wide range of dynamic nuances and approach musical phrasing in a fluid and organic manner. The conductor's precise communication of dynamic and articulation cues directly influences the ensemble's expressive interpretation. Furthermore, the clarity of text articulation significantly contributes to sound homogeneity. In choral music, the text plays a major role in communicating the artistic message, and clear diction, correctly placed accents, and well-defined consonants are aspects that enhance sound quality.

Another decisive factor is the acoustics of the rehearsal and performance space. The acoustic environment where rehearsals and concerts take place influences the perception of choral sound. In a space with excessive reverberation, timbral details may be lost, while in an overly dry space, the ensemble may sound flat and lacking in depth. For this reason, the conductor must adapt the sound balance and emission technique to the specific acoustic conditions of each space.

To optimize the choir's sound, the conductor implements a series of specific strategies. Vocal exercises aimed at unifying timbre and improving sound emission are essential for achieving a balanced sound. Resonance exercises, legato techniques, and the conscious study of resonance points help the ensemble develop greater timbral coherence. Additionally, conducting gestures must be precise and well-calibrated to reflect the desired musical character. Through gestural control, the conductor shapes phrasing, rhythmic stability, and ensemble coherence.

3. Conducting strategies

An essential aspect of the interpretative process is the balance of sound among the ensemble's voices. The conductor monitors and adjusts vocal levels, both through specific directions and through the strategic positioning of the choir based on the space's acoustic conditions. A good understanding of acoustic phenomena helps the

conductor identify optimal emission zones, adjust the angles of sound projection, and control dynamics for optimal projection in the concert hall.

The essential elements for achieving high-quality choral sound include:

- 1. *Choral Homogeneity* Voices within the sections must be balanced and well-integrated, avoiding dominance of any one voice over others.
- 2. Accurate Intonation Pitch and chord accuracy is essential to prevent unintended dissonances.
- 3. *Controlled Breathing* Choristers must use well-coordinated breathing techniques to support musical phrasing.
- 4. *Dynamics and Expressiveness* Control of sound intensity and dynamic planning helps create a vivid and emotionally engaging performance.
- 5. *Clear Diction* Uniform and well-articulated pronunciation ensures the message is understood.
- 6. *Musical Phrasing* A fluid and logical interpretation of musical phrases enhance the piece's expressiveness.
- 7. Balance Among Sections No section should be too strong or too weak relative to the others.
- 8. *Mutual Listening* Choristers must listen attentively to one another to maintain ensemble unity.
- 9. Adaptation to Acoustics Tailoring the performance to the room's acoustic characteristics helps optimize the sound.

By coordinating these elements, choral interpretation gains depth, clarity, and expressiveness. Each of these components contributes to the choir's overall performance and can be improved through targeted exercises. The consistent implementation of such exercises in rehearsals can significantly enhance the ensemble's sound quality, leading to high-level performance.

The choir's sound is influenced by the ensemble's preparation level and type. Exercises must be adapted according to the capabilities and needs of each choral category:

Children's Choirs – require playful and intuitive methods to develop vocal skills in a pleasant and effective way.

Amateur Choirs – need accessible yet effective exercises to improve sound quality without putting pressure on technique. The conductor should focus on blending and intonational accuracy using practical and easy exercises.

Professional Choirs – require technically and interpretatively advanced exercises.

The differences between choir types call for specific exercises tailored to the level of each ensemble. By correctly applying these exercises, choral sound can gradually improve, leading to a high-quality performance.

Here is a series of exercises adapted for each type of choir, according to their experience level:

Specific Exercises for Children's Choirs

1. Sound Blending:

- "Echo Vocalize" The conductor sings a short phrase on a single vowel, and the children imitate it exactly. This helps unify vocal timbre.
- "Friendly Sound" Children sing a note in small groups, listening to each other to match volume and timbre.

2. Accurate Intonation:

- "Animated Scale" A scale is sung with movements for each note (raising arms for high notes, lowering for low ones) to develop pitch awareness.
- "Guess the Melody" A melody is sung with one intentional wrong note; the children must identify and correct it.

3. Controlled Breathing:

- "Magic Balloon" Children imagine inhaling to inflate a balloon, then exhale slowly on "sss", practicing breath control.
- "Synchronized Breathing" The whole choir inhales and exhales together, following the conductor's gestures.

4. Clear Diction:

- "Word Relay" Rhythmic syllables like "pa-pe-pi-po-pu" are pronounced quickly to improve articulation. Tongue twisters can be added, such as "Păcală papă pâine prăjită".
- "Songs with Strong Consonants" Songs with many plosive consonants are used to develop clear pronunciation.

5. Optimal Resonance:

- "Mask Sound" Children sing on "m" and feel the vibration in the face area, then apply that resonance to melodic singing.
- "Colored Vowels" The same note is sung on different vowels to observe how resonance changes.

6. Dynamics and Expressiveness:

• "Musical Story" – A simple melody is sung in various emotional styles (joy, sadness, anger), adjusting dynamics and expression accordingly.

7. Balanced Timbres:

• "Sound Circle" – Children stand in a circle and sing the same note on "o" or "u", listening and trying to match voices.

8. Coherent Musical Phrasing:

• "Sound Wave" – A phrase is sung with gradual crescendos and decrescendos, following the conductor's hand movements.

9. Balance between sections:

• "Correct Volume" – The choir splits into two groups singing the same melody; one sings more softly to maintain balance.

10. Mutual Listening:

• "Puzzle Melody" – A melody is split between two groups, each singing only part of the notes, requiring attentive listening to complete the phrase.

11. Acoustic Adaptation:

• "Echo Test" – The same phrase is sung in different locations (near a wall, in the middle of the room), discussing how the sound changes with the space.

Specific Exercises for Amateur Choirs

1. Sound Blending:

- "Pair Listening" Each chorister sings in duet with a colleague, matching timbre and volume.
- Vocalizes on "m" and "u" The choir sings a scale on "m" (to unify resonance), then on "u" (to open the sound).
- "Unified Vowels" The choir sings on a single vowel (e.g., "u"), then applies the same tone color to the actual text.

2. Accurate Intonation:

- "Slow Scale with Adjustment" A slow ascending and descending scale, stopping on each note to correct deviations.
- "Pure Chords" Each voice part holds a chord tone, listening to the others to stabilize tuning.

3. Proper Breathing:

- "Phrases Without Breaks" A long phrase is sung without a collective breath, using individual breathing technique.
- "Synchronized Breathing" A long phrase is sung with conductor-indicated group breathing spots.
- "Staccato and Legato" Short staccato phrases and long legato ones are sung to develop breath control.

4. Clear Diction:

- "Rhythm and Text" A piece's text is rhythmically recited without melody to clarify pronunciation.
- "Exaggerated Consonants" A passage is sung with exaggerated consonants, then returned to natural delivery.

5. Optimal Resonance:

- "Mask Placement Sound" Singing on "ng" to focus sound forward, then applying this to a piece.
- "Doubling Overtones" Singing on "u" while gradually changing lip shape to find the best resonance.

6. Dynamics and Expressiveness:

• "Sound Waves" – A phrase is sung with varying dynamics (piano, mezzo, forte), emphasizing dynamic transitions.

7. Balanced Timbres:

• "Pair Listening" – Singing in pairs, each adjusting to match the other's tone.

8. Coherent Musical Phrasing:

• "Musical Breathing" – The same phrase is sung several times, highlighting different melodic directions to find the most expressive option.

9. Balance Between Sections:

• "Sound Balance" – Each section sings alone, then together, adjusting volume to avoid dominance.

10. Mutual Listening:

• "Fragmented Canon" – A canon is sung where each group must listen to others' melodic lines.

11. Acoustic Adaptation:

• "Spatial Projection" – The same phrase is sung in various corners of the room, adjusting volume and clarity.

Specific Exercises for Professional Choirs

1. Sound Blending:

- "Spectral Analysis" Recording and analyzing the sound spectrum to adjust tonal balance.
- "Vowel Fusion" Singing different vowels on the same note while adjusting timbre to maintain sound uniformity.
- "Octave Singing" The choir is split in two groups: Group 1 (Soprano & Tenor), Group 2 (Alto & Bass). Both sing the same melodic line an octave apart, aiming for timbral blend.

2. Accurate Intonation:

- "Harmonic Adjustment" Singing complex chords and individually adjusting notes for perfect tuning.
- "Micro-intonational variations" Practicing transitions between semitones with extreme precision.
- "Interval singing" Singing difficult intervals to develop pitch accuracy.

3. Proper breathing:

- "Silent breathing" Practicing inhalation without sound, maintaining optimal air control.
- "Unbroken phrases" Singing long phrases with subtle breath changes using individual breathing techniques to create a continuous sound.

4. Clear diction:

• "Interpretive phonetics" – Studying and applying pronunciation differences for various languages.

• "Text recitation" – Pronouncing the text of pieces written in foreign languages at the appropriate rhythm and tempo, without melody, to emphasize diction clarity.

- "Consonantal projection" Whispering the text of the piece, then singing it while maintaining clarity.
- "Text transparency" Singing in small groups to enhance phonetic detail clarity.

5. Optimal resonance:

- "Vocalises on nasal sounds" Using syllables formed from the consonants "m" and "n" followed by the vowels "a", "e", "i", "o", "u", to feel the sound vibrations in the facial area and develop frontal resonance.
- "Placement exercises" Focusing the sound in the "mask" (nasal area and cheekbones) to achieve a brighter and more penetrating tone.
- "Acoustic experimentation" Singing in different spaces to adapt resonance to the acoustic conditions.
- "Overtone singing" Practicing techniques to amplify the natural harmonics of the voice.

6. Dynamics and expressiveness:

• "Dynamic micro-palettes" – Singing a phrase while precisely varying the intensity of each sound.

7. Balanced timbres:

• "Harmonic blending" – Singing on "ng" to unify resonance, then switching to the actual text.

8. Coherent musical phrasing:

• "Expressive articulation" – Exaggerating phrase articulation to refine expressiveness.

These exercises help to perfect the sound of each type of choir.

In recent years, neuroscience research has contributed to understanding how auditory perception influences choral performance. Studies suggest that mental training, auditory visualization, and understanding perception mechanisms can enhance interpretive coherence and ensemble synchronization. Conductors who integrate this knowledge into their working methodology manage to optimize choral performance by combining technical aspects with a deep understanding of how sound is received and processed by performers and audiences alike.

Achieving high-quality choral sound is the result of meticulous work and an integrated approach, where the conductor acts as a skilled architect of sound. By using advanced conducting techniques, applying acoustic principles, and developing refined interpretive sensitivity, the conductor can transform a choir into an exceptional sonic organism. Sound quality is not merely a matter of technical precision, but a profound artistic process in which every detail contributes to creating a memorable auditory experience.

In the contemporary musical landscape, choral music represents a particularly complex field, where aesthetics and science intertwine in a subtle dance of sounds and emotions. In the art of choral interpretation, sound is a fundamental element that transcends the purely technical dimension of musical execution and enters the aesthetic and perceptual sphere. The conductor, as the main architect of sonic expressiveness, has the role of mediating between the composer's intent, the ensemble's capabilities, and the audience's auditory experience.

The role of the conductor in this artistic equation goes beyond simply leading rehearsals and becomes an art form, through which a sound is shaped and brought to life, blending technical precision with profound expressivity. The modern conductor stands as a true architect of choral sound, whose impact is reflected both in refined gestures and in acoustic approaches designed to optimize ensemble performance, transforming each interpretation into a unique sonic experience.

In the context of modern Romanian choral music, which stands out through the fusion of traditional elements with contemporary innovations, conducting technique becomes an essential tool for shaping expressiveness. Conducting gestures, with their almost choreographic precision, not only structure phrasing and dynamics but also direct the sonic flow according to interpretive intentions and the specific acoustic characteristics of each space. In this sense, the conductor is invited to leave their personal imprint, blending the rational with the intuitive to create a balance between science and art. Thus, their approach becomes a bridge between the notes written on the score and the living sound breathed by the choir, requiring a deep understanding of acoustic phenomena and interpretive psychology.

A detailed analysis of the phenomenon shows that the gestural strategies adopted by the conductor have a direct influence on choral sound. Every movement – from the broad arm gestures that shape fluid melodic lines to the discreet gestures that emphasize dynamic changes – is designed to communicate not only tempo and intensity but also the subtle nuances of sound texture. These gestures thus become a form of non-verbal language through which fine instructions are conveyed, ensuring the choir's interpretive cohesion. In practice, it has been observed that a personalized approach, adapted to each ensemble's specificity, can turn rehearsal into a process of artistic synergy, where each chorister feels like an integral part of a greater whole, and the resulting sound reaches remarkable clarity and depth.

From an acoustic perspective, the concept of "sound" is approached not only as a perceptual quality but as a measurable characteristic that depends on the interaction between the sound source, the propagation environment, and auditory receptors. The modern conductor, aware of these aspects, integrates into their practice knowledge of acoustic physics and the psychology of sound perception, adapting rehearsal and interpretation techniques to the specific conditions of the concert hall. For example, in a highly reverberant environment, special attention

must be paid to articulation and entry timing to avoid undesirable note overlap and to maintain voice clarity. At the same time, volume and timbral distribution adjustments are made through precise gestural cues that ensure uniform sound distribution in space, giving the performance a three-dimensional quality.

The interaction between conducting gestures and acoustic concepts proves to be a sophisticated synthesis in which scientific rationality meets artistic intuition. Contemporary choral performances have highlighted the importance of interdisciplinary training, where conductors benefit from additional education in acoustics, audio technology, and even neuroscience, enabling them to finely interpret subtle sonic signals. Thus, rehearsals are no longer seen as merely mechanical processes of aligning timing and intensity, but as workshops of experimentation in which not only notes are shaped, but also the audience's auditory perception. In this framework, gestures become communication tools, and the concept of "acoustic space" extends beyond the physical limits of the concert hall, becoming an entity that can be shaped and influenced through innovative conducting techniques.

Another essential dimension is the emotional and psychological connection between conductor and choir. Within the choral interpretive phenomenon, the emotional and psychological interaction between the conductor and the vocal ensemble constitutes a fundamental pillar in shaping aesthetic coherence and expressive depth. From a psychological and neuroscientific perspective, this relationship transcends the simple mechanisms of technical coordination, becoming a complex process of emotional and cognitive interconnection, where gestural dynamics, micro facial expressions, and prosodic fluctuations of the conductor act as stimuli for emotional regulation and the choir's collective synchronization.

Numerous studies in music psychology highlight that the gestural direction exerted by the conductor is not only a vehicle of interpretive intent but also a catalyst for the phenomenon of emotional contagion, activating neural networks involved in processing affective expressivity and the emergence of collective cohesion. In this sense, the neural mechanisms of empathic resonance facilitate a form of "collective musical consciousness", where performers reach a level of emotional synchronicity that surpasses conventional verbal communication. This phenomenon manifests in what the specialized literature calls "collective flow" — a state of deep artistic immersion, characterized by an organic integration of expressive intentions and an amplified sense of interpretive unity.

In light of musical attachment theory, the conductor fulfills a function similar to that of a regulator of emotional stability, exerting a direct influence on the ensemble's confidence and level of artistic involvement. Perceiving the conductor as the focal point of expressive safety leads to a significant decrease in performance anxiety, fostering an interpretive climate where nuanced exploration coexists

harmoniously with technical rigor. Thus, the relationship between conductor and choir does not reduce to a functional interaction but becomes a true network of affective and cognitive interdependencies, essential for the emergence of authentic interpretive aesthetics.

4. Conclusions

Therefore, the psychological and emotional connection between conductor and choir cannot be seen as a mere complementary aspect of the interpretive act, but as an intrinsic dimension of the artistic process. Thanks to mechanisms of musical empathy, kinesthetic communication, and collective emotional regulation, this relationship determines not only the technical precision of the ensemble but also the expressive depth of the musical discourse, highlighting the nature of choral interpretation as an emergent phenomenon at the intersection of musicality, psychology, and social dynamics. In modern choral music, where the transmission of complex emotional states is sought, the conductor's ability to inspire and motivate the choir plays a crucial role. Through expressive gestures, they manage to infuse rehearsals with energy and create an atmosphere in which each chorister takes an active role in creating an authentic sonic synergy. This approach, grounded in subtle communication and empathetic understanding of the performer's vocal abilities, leads to a performance where technique is rooted in authenticity and a profound perception of the musical text. The result is a performance in which acoustic rigor harmoniously blends with artistic expressiveness, shaping a distinctive auditory experience.

Methodologically, integrating acoustic knowledge into conducting practice requires a constant process of recalibration, in which feedback from the choir and objective performance analysis are essential. Sound intensity measurements, spectrogram analysis, and auditory perception studies provide conductors with additional tools to evaluate and correct potential imbalances. These scientific approaches are not reserved exclusively for academic research but have materialized into practical techniques that can be implemented during rehearsals and live performances. Thus, a bridge is created between the theory of acoustics and the art of interpretation, contributing to the development of an innovative conducting methodology that recognizes and values the interdependence between technique and expression.

In the context of contemporary Romanian choral music, the choir conductor assumes the responsibility of interpreting and promoting the works of modern composers using gestural strategies and acoustic concepts adapted to the specifics of each composition. Their responsibilities go beyond the strictly technical domain of leading the ensemble, integrating aspects of stylistic interpretation, timbral construction, and sound balance. Implementing specific conducting strategies tailored

to each creation becomes an artistic imperative, intended to faithfully convey the intentions of contemporary composers. A refined example of interpretive sophistication, stylistic diversity, and sonic complexity is offered by the choral works of composers such as Sabin Păutza, Dan Buciu, Dan Dediu, George Balint, Diana Dembinski, and Grigore Cudalbu — composers who have deeply explored the relationship between timbre and choral expressiveness. The gestural construction of musical phrases depending on the style of the pieces, the evolution of melodic lines, vocal-timbral density, and harmony becomes sculptural, capable of shaping both microdynamic details and the coherence of the overall sonic architecture. In these creations, the conductor does not act merely as a moderator of execution but as a true mediator between the composer's intention and the choir's actual interpretation.

Deliberately, through meticulous adjustments and well-calibrated gestures, the conductor influences the audience's perception, managing to turn each rehearsal into a process of redefining the ensemble's sonic identity. Thus, in contemporary choral music, the conductor assumes a vital role in shaping the sound, bearing the responsibility of translating the composer's intentions both gesturally and acoustically. Through an appropriate conducting approach, grounded in a deep understanding of the score and the acoustic space, the conductor becomes the guarantor of an authentic, meaningful, and expressive interpretation, contributing to the evolution and diversification of today's musical landscape.

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