

About the 8th International Scientific Conference Interdisciplinary Discourse East-West: 21st Century Creativity Work Research Technology Education

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Abstract—The Herzen State Pedagogical University of Russia and the Baku Music Academy named after Uzeyir Hajibeyli hosted the International Research Conference Interdisciplinary Discourse East-West: 21st century. Creative Work. Research. Technology. Education from March 5 to March 18, 2026.

Teachers of higher and secondary specialized educational institutions, researchers, members of research and creative communities, doctoral students, postgraduate students, assistant trainees, as well as students and master's students of higher educational institutions are invited to participate in the conference.

Keywords—Creative work, East-West, education, interdisciplinary discourse, research, technology, Uzeyir Hajibeyli.

I. INTRODUCTION

On March 5 - 18, 2026, the Herzen State Pedagogical University of Russia and the Baku Music Academy named after Uzeyir Hajibeyli once again held the International Research 8th International Research Conference *Interdisciplinary Discourse East-West: 21st Century. Creative Work. Research. Technology. Education*.

The International Research Conference *Interdisciplinary Discourse East-West: 21st Century. Creative Work. Research. Technology. Education* has been held since 2019 and provides a platform for discussing a wide range of issues related to intercultural communication. It aims to bring together the scientific approaches of Eastern and Western scholars and to coordinate the joint interdisciplinary activities of researchers in various fields of scientific knowledge (including art historians, musicologists, ethnomusicologists, cultural experts, educators, psychologists, acousticians, physicists, mathematicians, and specialists in information and music computer

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technologies). The opportunity for active dialogue contributes to the creation of conditions for the interpenetration of research methods in the humanities, exact sciences, and natural sciences, and to the development of a transdisciplinary approach in science and education.

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II. ON THE OCCASION OF THE 140TH ANNIVERSARY OF UZEIR HAJIBEYOV

The 8th Conference International Research Conference *Interdisciplinary Discourse East-West: 21st Century. Creative Work. Research. Technology. Education* is dedicated to the 140th anniversary of the birth of Uzeyir Hajibeyov, an outstanding composer, musicologist, and public figure, the author of the first mugham opera *Leyli and Majnun* in the East. Having created a contemporary theory of Azerbaijani moods and for the first time integrated the Eastern fret system into the European model of professional musical education, he laid the foundations and defined further ways of developing the national school of composition and musicology. His unique synthesis of the traditions of East and West remains relevant, defining the vectors of discussion.: from musicology to the use of computer technology and artificial intelligence in creative work, music research, and education.

III. AREAS OF WORK OF THE 8TH INTERNATIONAL RESEARCH CONFERENCE INTERDISCIPLINARY DISCOURSE EAST–WEST: 21ST CENTURY. CREATIVE WORK. RESEARCH. TECHNOLOGY. EDUCATION

Areas of work of the 8th International Research Conference *Interdisciplinary Discourse East–West: 21st Century. Creative Work. Research. Technology. Education*:

- The Legacy of Uzeyir Hajibeyli in the Intercultural Dialogue
- Uzeyir Hajibeyli and the Cognitive Aspects of Mode Thinking
- Interdisciplinary Research Vectors in the Light of the Concept of the Zone Nature of Musical Hearing by N. A. Garbuzov (1880 – 1955), the Founder of the Russian School of Musical Psychoacoustics. Music, Acoustics, and Perception.
- Dialogue of Cultural Traditions in the Musical Practice of the 21st Century: Creative Work, Performance, and Pedagogy.

- Music research in the focus of natural science and humanities.
- Interdisciplinary approach to the study of musical creativity, problems of performance and pedagogy.
 - Problems of cognitive musicology.
 - Acoustic research in musicology.
 - Music computer technologies in education and creativity.
 - Digital musical instruments.
 - Transdisciplinary approach in research and education.
 - Cultural, artistic, and social aspects of the interaction between the East and the West.
 - National schools of composition
 - Ethnomusicology at the present stage
 - National musical instruments: issues of organology
 - Artificial intelligence in musical creative work and education

The working languages of the Conference were Russian, Azerbaijani, and English.

The following forms of participation in the Conference were provided: full-time, distance, correspondence.

The Conference was held at the Herzen State Pedagogical University of Russia (St. Petersburg, Russia) and the Baku Music Academy named after Uzeyir Hajibeyli (Baku, Azerbaijan).

IV. A BRIEF INFORMATION ABOUT THE PREVIOUS STAGES OF THE CONFERENCE

A brief information about the previous stages of the Conference/

In 2024, the 6th International Research Conference *Interdisciplinary Discourse East-West: 21st Century. Creative Work. Research. Technology. Education* was dedicated to the memory of Mikhail Sergeevich Zalivadny (1946 – 2023), a prominent Russian musicologist, who played an important role in developing a comprehensive model of the semantic space of music. His research interests included the application of mathematical methods in musicology. One of the essential aspects of his work is the use of musical and computer technologies, which allow for a new perspective on the problems of preserving, researching, and broadcasting the musical culture of the world's peoples. Mikhail Sergeevich Zalivadny's efforts were aimed at revitalizing traditional folklore, helping it to avoid oblivion, and transforming it into a living, functioning organism through the use of new forms of sound production, thereby expanding the possibilities for compositional creativity.

In 2025, the 7th International Research Conference *Interdisciplinary Discourse East-West: 21st Century. Creative Work. Research. Technology. Education* was dedicated to the memory of Nikolai Alexandrovich Garbuzov (1880-1955), a prominent Russian musicologist who proposed the idea that the chosen intonation depends on the musical relationships between sounds and the figurative and emotional content of a work. In relation to the pitch organization of music, the scientist came to the conclusion that mathematical structures exist only in an abstract theoretical sense, and that in reality, music is performed in a "zone structure" that encompasses an infinite

number of intonational variations, and each performance of a musical piece represents a unique variation of this structure. Based on his experiments, he refined the typology of musical hearing and demonstrated that intra-zone intonational hearing can be actively developed through specific exercises.

Nikolai Alexandrovich Garbuzov developed the theory of the multi-fundamentalness of modes and consonances, he also dealt with the issues of Russian folk polyphony, scientific systematization of terminology in elementary music theory.

In 1921 – 1931, N. A. Garbuzov headed the State Institute of Music Research, where he conducted research and organizational work. In 1923 – 1951, Garbuzov was a professor (class of musical acoustics). In 1933 – 1948, Nikolai Alexandrovich Garbuzov was the head of the acoustic laboratory and the dean of the Faculty of History and Theory at the Tchaikovsky Moscow State Conservatory. In 1934 – 1945, he became the director of the Research Institute and the head of the music sector at the Institute of Art History of the USSR Academy of Sciences, in the creation of which the scientist took an active part.

V. CONCLUSION

The 8th International Research Conference *Interdisciplinary Discourse East-West: 21st Century. Creative Work. Research. Technology. Education* was attended by 107 speakers from 14 countries: the Republic of Azerbaijan, the Republic of Belarus, the Islamic Republic of Iran, the Kingdom of Spain, the Republic of Kazakhstan, the Republic of Cyprus, the People's Republic of China, the Kyrgyz Republic, the Russian Federation, the United States of America, the Republic of Tajikistan, the Republic of Turkmenistan, the Republic of Uzbekistan, and the Republic of Estonia.

More than 200 students, postgraduate students, master's students, researchers from research academic centers and research institutes of the Academies of Sciences of the Russian Federation and the Republic of Belarus, teachers from universities with a focus on the humanities, education, and technology, conservatories, music academies, colleges, schools, and 9 invited expert consultants also participated in the conference's round tables and various discussion platforms (seminars, master classes, and open sessions).

At the end of the article, we will provide a number of links to articles that consistently reflect the results and scientific findings of our scientific forums *Interdisciplinary Discourse East-West: 21st Century. Creative Work. Research. Technology. Education* [1-11].

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Irina B. Gorbunova was born in Saint Petersburg (Leningrad), Russia.

DipMus, Special Music Higher School of the St. Petersburg State Conservatory named after N.A. Rimsky-Korsakov; BSc in Computer Science: Information Technology, Computer Science and Multimedia, Leningrad State University, Ussurisk State Pedagogical University; MA in Education, the Herzen State Pedagogical University of Russia; PhD in Information Technology and Pedagogical

Sciences, the Herzen State Pedagogical University of Russia, St. Petersburg, 1989; Doctor degree: Doctor of Pedagogical Sciences and Information Technology, the Herzen State Pedagogical University of Russia, St. Petersburg, 1999.

Dr., Full Professor, Chief Researcher of the Education and Methods Laboratory *Music Computer Technologies* at the Herzen State Pedagogical University of Russia, St. Petersburg; hold the degree of Honorary Worker of Higher Professional Education of the Russian Federation.

Prof. Dr. Gorbunova is a Chairperson of the annual International Research and Practical Conference *Contemporary Musical Education: Creative Work, Research, Technology*, held since 2002; Chairperson of the annual International Research and Practical Conference *Music Computer Technologies in the System of Contemporary Education*, held since 2007; International Research Conference, held since 2017;); Chairperson of the annual International Research Conference *Interdisciplinary East-West Discourse: The 21st Century. Creative Work. Research. Technology. Education*, held since 2020 (Baku, Azerbaijan – St. Petersburg, Russia).

Dr. Gorbunova is a member of the Jury of national and international competitions of musical creative works, including *Electronic Palette*

(Saint-Petersburg), *Music and Electronics* (Moscow), *Music of the 21st Century* (Moscow / Saint-Petersburg), International Festivals and Competitions *Musical Electronics and Multimedia* (Moscow / St.-Petersburg), *CLARINE of the 21st Century* (St. Petersburg), *The World of Art without Borders* (Saint-Petersburg, Russia - Szeged, Hungary), *Bridge of Friendship* (Dortmund, Germany), All-Russian Competition of Electroacoustic Music *DEMO* (St. Petersburg, Russia).

Under the guidance of the professor, Dr. Gorbunova developed the first-ever bachelor's degree programs in *Music Computer Technologies* (2004) and *Information Technology in Music and Sound Design* (2023), as well as Master's degree programs in *Music Computer Technologies in Education* (2006) and *Digital Technology in Music and Sound Design* (2022).

Professor Dr. Gorbunova directs a number of doctoral and postdoctoral studies (more than 30) and lectures on music computer technology and information technology in music. She directs research in various fields, including: Theory and history of culture, musical art, information systems and processes, Theory and Methodology of vocational education, mathematical modeling, numerical methods and software systems, Theory and methods of teaching and educational work (in music, computer science, natural sciences). The research results of Prof. Gorbunova has published more than 550 peer-reviewed publications, including more than 50 books and more than 300 articles in various scientific journals.

Her research activities include such directions as:

MCT in professional musical education (as a means to expand creative opportunities);

MCT in general musical education (as one of the means of education);

MCT as a means of rehabilitation of people with disabilities;

MCT as the new direction in preparation of specialists of humanitarian and technological profile;

MCT in the field of digital arts; MCT in information technology, psychoacoustics and musical acoustics; system of training arrangements and the art of performing skills on electronic musical instruments.

Her circle of interests also includes the problems of interrelation of natural and technical sciences and humanities, as well as the possibilities of applying the results of such interrelation for the purposes of music education and upbringing.

She also takes part in working out the specialized software for computer music devices and in application of this software in pedagogical processes.

Her developments and researches also belong to the field of musical pedagogics and musicology, musical informatics, computer modeling of processes of musical creativity, timbre programming, art of performing skills and arrangement on electronic musical instruments, creative work in the field of computer music, mathematical methods in musicology.



Andreas Kameris was born in Nicosia, Cyprus.

2001 - Master of Musical Arts (composition) – St. Petersburg State Conservatory, named after N. A. Rimsky-Korsakov; 2007 – PhD in Pedagogical Sciences, Herzen State Pedagogical University of Russia, St. Petersburg (under the supervision of Doctor of Pedagogical Sciences, Professor Irina B. Gorbunova).

Work experience:

2002 – present – Senior Researcher and Lecturer at the Research and Methods Laboratory *Music Computer Technologies*, Herzen State Pedagogical University of Russia

2005 – 2012 – visiting Lecturer at the ARTE Music Academy, Nicosia, Cyprus.

He has more than 50 scientific publications, among them are monographs and handbooks: monographs *The Concept of Music Computer Education in the Training of a Musician Teacher* (co-authored with I.B. Gorbunova, 2011); *Music Computer Technologies in the Training of a Music Teacher (Information Technology and Psychological and Pedagogical Aspects)* (co-authored with V.V. Belichenko, I.B. Gorbunova, 2011); textbook *Software for Professional Activities of a Musician* (co-authored with M.M. Bryantsev, I.B. Gorbunova, E.V. Kibitkina, O.Y. Prazdnichnikh, 2009); a lot of electronic educational resources in the field of computer music creative work.

His articles have been published in various scientific journals and editions, for example: Gorbunova I.B., Kameris A. Music Computer Technologies in Training a Modern Teaching Musician. *Journal of Advanced Research in Dynamical and Control Systems*. 2020. Vol. 12. No. S6. Pp. 518-531; Gorbunova I.B., Kameris A. Music Computer Education Concept for Teachers: Raising the Problem. *International Journal of Recent Technology and Engineering*. 2019. Vol. 8. No. 2 S4. Pp. 913-918; etc.

In addition to original compositions, he has vocal cycles and arrangements for orchestra and ensembles of various musical instruments, performed in various concert halls in many countries.



Imina G. Alieva, Ph.D. (Arts). Leading researcher of the Laboratory *Research on Azerbaijani Professional Music of Oral Tradition and Its New Directions: Organology and Acoustics*, Baku Music Academy named after Uzeyir Hajibeyl, member of the Union of Composers of Azerbaijan.

Graduated from the Azerbaijan State Conservatory named after U. Hajibeyov (piano class), as well as Azineftekhim named after M. Azizbekov (Faculty of Automation of Production Processes).

She studied at the graduate school of Azineftekhim, worked for about 20 years at the Institute of Mathematics and Mechanics of the Academy of Sciences of Azerbaijan under the guidance of Academician A. Mirzajanzade (development of expert systems in oil production).

Imina Alieva received a diploma from Herzen State Pedagogical University of Russia (St. Petersburg, Russia) on professional retraining programs in the specialties *Teaching Electronic Keyboard Synthesizer* and *Teaching Musical Disciplines Using Music Computer Technologies*.

Doctor of Philosophy in Art History (2012). The topic of the dissertation research is *The Intonation System of Azerbaijani Moods in the Context of Contemporary Musical Theory*.

Her research interests include interdisciplinary research in musicology, cognitive musicology, psychoacoustics, music and computer technology, ethnomusicology, the use of fuzzy sets in musicology. In his scientific

publications, he develops theoretical and practical aspects of the concept of the zone nature of musical hearing by N. A. Garbuzov.

Author of numerous articles and reports (including in journals and conference materials included in WOS and Scopus), in which the problems of fret, hearing, musical acoustics, ethnomusicology are considered from the standpoint of cognitive musicology (Hirsch index 5).

She is the author (as well as the developer of the electronic version) of the *Practical Guide to the Study of Azerbaijani Moods and the Development of Ladointonal Hearing* (2010), published in Azerbaijani, Russian, English. The book, made on the basis of fret models, has been approved by the Ministry of Education of Azerbaijan as a textbook.

Participant of more than 50 international scientific conferences, symposiums, congresses in Azerbaijan (Baku), Belgium (Leuven), Great Britain (London, Durham), Israel (Tel Aviv, Jerusalem, Eilat), China (Beijing), Poland (Poznan), Russia (Moscow, St. Petersburg, Kazan, Saratov), Turkey (Cappadocia), Montenegro (Budva), Uzbekistan (Samarkand), etc.

Member and participant of the number of organizing committees of the international conferences, including the annual International Research and Practical Conference *Contemporary Musical Education: Creative Work, Research, Technology* (St. Petersburg, Russia); the 16-th International Conference on *Music Perception and Cognition* (hubs were organized and located in Australia, Azerbaijan, Great Britain, India, Colombia, Lithuania, Mexico, Poland, South Africa); the annual International Research Conference *Interdisciplinary East-West Discourse: The 21st Century. Creative Work. Research. Technology. Education*, held since 2019 (Baku, Azerbaijan – St. Petersburg, Russia).