

ICMA Music Showcase 2022: Asia

Concert 1

UTC 07:00

(3pm Beijing, Hong Kong, Singapore; 4pm Seoul, Tokyo; 9am
Paris; 8am London, 3am New York; 12am Los Angeles)

14 April 2022



**International
Computer
Music
Association**

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Al Maria

Computer Music

"Al Maria" is generated by DeepChoir (a melody choralization system) based on "Ave Maria", whose melody is composed by Charles Gounod, and the piano accompaniment is from Prelude No. 1 in C major, BWV 846. This music is a soulful homage to classical music, fulfilled with baroque elements, which was conceived as a genuine collaboration between humans and machines spanning centuries.

The composition of polyphonic chorale music in the style of J.S. Bach has represented a major challenge in automatic music composition over the last decades. Although previous neural network-based systems can effectively generate an appropriate chorale, none of them can generate chorales based on given chord progressions. To achieve chord-conditioned melody choralization, we propose DeepChoir. It is a melody choralization system that trained on J.S. Bach Chorales Dataset (with 371 chorales), and can generate a four-part SATB choir for a given melody and its corresponding chord progression.

This music is created as follows. We first chordify the piano accompaniment part which is composed by J.S Bach to get its chord progression. DeepChoir then generates a four-part SATB choir based on the extracted chord progression and the melody composed by Gounod. Finally, we rearrange the generated choir into a symphony and name it "Al Maria".

Shangda Wu (Central Conservatory of Music)
Yuan Zhang (Central Conservatory of Music)
Yuanliang Dong (Central Conservatory of Music)
Xiaobing Li (Central Conservatory of Music)
Maosong Sun (Tsinghua University)

Wu Shangda

Wu Shangda is from Chenzhou, Hunan. He is currently studying at the Central Conservatory of Music, class of 2021, as a PhD student who majors in music artificial intelligence with Prof. Sun Maosong and Prof. Yu Feng. His main research interest is the application of deep learning algorithms in the symbolic music domain. He studied at Xinghai Conservatory of Music from 2015 to 2019 as a bachelor, majoring in piano performance. In 2019, he was admitted to the School of Computer Science and Engineering at Sun Yat-sen University for his master's degree, majoring in software engineering.

Zhang Yuan

Zhang Yuan born in Shijiazhuang, Hebei Province, China. She is currently studying at the Central Conservatory of Music as a PhD student in electronic music composition, class of 2020, under the supervision of Prof. Xiaobing Li. Her main research interest is the application of artificial intelligence technology in the practice of electronic music composition, and she studied in the composition department of the Central Conservatory of Music from 2003 to 2011 under the supervision of Prof. Qin Wenchen. In 2005, she was awarded the Grand Prize in the Dutch New Music Ensemble's Global Chinese Composition Competition, the youngest composer to win the prize in its history.

Dong Yuanliang

Dong Yuanliang is a second-year PhD student of Central Conservatory of Music in China, who majors in AI music and music technology with the supervision of Prof. Sun Maosong and Prof. Yu Feng. His research interests lie in music representation learning and the structural generation of symbolic music. He has a bachelor's degree of computer science and technology in Tsinghua University, where he minored in music engineering and technology.

Li Xiaobing

Professor of the Central Conservatory of Music, doctoral tutor, his main research direction is electronic music, computer music, art technology. Chief expert of major projects of the National Academy of Sciences, Director of Art and Artificial Intelligence Specialty Research of China Artificial Intelligence Society. Integrate deep learning into artistic creation. Works cover almost all types of music, and some works are loved by general audience and have national wide influence. They have won the Golden Bell Award, the Wenhua Award, the Wenhua Music Composition Award, the first prize of National Opera and Dance Drama, and the "Five One Project" of the Central Propaganda Department. Awards and other domestic and foreign awards.

Sun Maosong

Sun Maosong, a professor, is currently the Executive Dean of the Institute of Artificial Intelligence, Tsinghua University, Chairman of the Sub-Committee of Computer Science Degree Evaluation, Tsinghua University, Deputy Director of the Online Education Research Center of the Ministry of Education, and Director of the Research Center for Massive Online Open Education of Tsinghua University. He was formerly the Chairman of the Department of Computer Science. Currently a Distinguished Professor at the Department of Music AI and Information Technolgy, Central Conservatory of Music.

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魘

Computer Music

这首乐曲表达的是，分不清梦境与现实的虚幻。我们每天虚实结合，不知道什么才是真的，什么才是假的，反过来说，不论真假这都是我们真切的感受... 痛苦 悲伤 兴奋 快乐 压抑 无聊 难耐 欲望 疼痛，当这些情绪交错而来的时候.....

This piece of music expresses the unreality of confusing dreams and reality. Every day, we do not know what is true, what is false, on the other hand, whether true or false, this is our true feelings... Pain, sadness, excitement, happiness, depression, boredom, intolerance, desire, pain, when these emotions come together... .

Yi Han Hou (Shenyang Conservatory of Music)

我叫侯轶涵是来自中国沈阳音乐学院的学生，今年19岁，曾获得丹尼奖G2组铜奖，于2020年考入沈阳音乐学院进行学习，独立音乐人，网易云音乐人。

My name is Ian Hou, a 19 year old student from Shenyang Conservatory of Music in China. I won the Danny Award G2 Bronze Award. In 2020, I entered Shenyang conservatory to study, independent musician, netease cloud musician.

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Qian·Rong

Audio-visual

“I shall dedicate myself to the interests of the country in life and death irrespective of personal will and world.” is cited from “Poems Dictated to My Family When Starting My Garrison Town Journey” by LIN Zexu, the Chinese Poet. It expresses the poet's magnanimous mind and patriotic sentiment. The sound design of the work is mainly based on Peking Opera Tsing Yi singing and percussion. The visual design incorporates the elements from poetry and Chinese ink painting. The composer uses sound and visual four-channel electronic acoustic music to try to not only express the poet's boldness and handsomeness, but also his feelings about the family and the country.

“苟利国家生死以,岂因祸福避趋之”出自林则徐的《赴戍登程口占示家人》,抒发了诗者的坦荡胸襟和爱国情怀。作品的声音设计主要基于京剧青衣唱腔、打击乐,视觉设计吸纳了诗词和中国水墨元素。作者以声音结合视觉的四声道电子声学音乐,尝试表现诗者的豪爽俊逸,也表达对家国情怀的感悟。

Maowen Tang (Sichuan Conservatory Of Music)

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“|”

Computer Music

"|" is fixed media electronic music. The works use grmtools, Kontakt and other plugins in logic to deform the sound materials. The development of the world has never stopped, there is no thinking, no emotion, rapid change and elusive. The individual in the world is like a trivial projection, which is small and easy to be ignored, but the individual is a real objective existence and has an internal small world. For each "|", the real world is composed of infinite external world and infinite internal small world. The emotional ups and downs of each of us are intertwined with the feelings and hearts of all things in the world. The world and "|" may be interlinked, but the external and internal projections are different. The first paragraph of the work uses the hand disc sound made of metal as the original material, symbolizing the world without emotional fluctuation, and shows the vastness of the world through the structure of space. The second paragraph uses the sound of the buckle of the glasses box to construct the feeling of a closed space and describe the fluctuation of the individual's inner world. Finally, "|" become one with the world.

Tian jing Wang (China Conservatory of music)

Wang Tianjing, a graduate student majoring in electronic music composition from China Conservatory of music, is under the guidance of Professor Jin Ping. Undergraduate study electronic music composition with Mr. Ma Shihua.

王天晶，来自中国音乐学院，电子音乐作曲专业研究生，师从金平教授。本科跟随马仕骅老师学习电子音乐作曲。

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The thatched house is broken by the autumn wind

Computer Music

This work was inspired by the poem "song of the thatched house broken by the autumn wind" by Du Fu, a poet of the Tang Dynasty. This poem describes the poet's sad experience that his thatched house was broken by the autumn wind and the whole family suffered night rain. It expresses his inner feelings for the displacement of the people in the war and reflects the poet's lofty ideological realm of worrying about the country and the people. Through the combination of Pipa and electronic music, the composers tries to describe the artistic conception expressed in the poem.

Xiaobo XU (Sichuan Conservatory of Music)

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Diastema II

Computer Music with Instrumentalists

Diastema in Ancient Greek means a space between two adjacent substances and can be explained as distance or remoteness. In the music series Diastema, the performers exist and play in the separated spaces, where the direct communication is impossible. This is one of the performing style of telematic music which we have been trying since 2011. The two or more different venues are connected through network. MIDI signals are sent on OSC and the Disklavier is interactively and remotely played by the human performance which occurred in the place separated from the Disklavier. Audio data is transmitted through Dante. In the performance of Diastema II, two wireless cameras and one fixed camera capture the three performers who are separated in some times but encounter with each other one time during the nine-minute performance. Each of the two wireless cameras follows one of the performers. Two players move from one place to the other, and the sounds generated by the human players are transmitted through wireless microphones. In case the locations where the players move are too distant for the mixer to catch the transmission, we use Dante also as wireless receiver and complemented the IP network audio. Here the presentation movie shows the telematic performance, which integrates the three movies of the three cameras into one completely synchronized movie. The video of the telematic performance by three musicians presents the chrono-topical overview of the three physical spaces.

古代ギリシャ語のDiastemaは二つのものが離れている「間隔」を意味し、距離または隔離状態を指し示す。作曲者が近年創作しているDiastemaシリーズは、演奏者たちがそれぞれ地理的・物理的に別の場所に居てダイレクトなコミュニケーションができないような状態で上演されるものであり、2011年以来試みているテレマティック音楽の一つの形態を実現している。このシリーズでは、二つないしはそれ以上の場所がネットワークで繋がれ、MIDI信号がOSCで送受信され、ディスクラヴィアをリモートでインタラクティブにプレイさせる。音声信号はDanteで送信される。

Diastema IIの上演では、二つのワイヤレスカメラと一つの固定カメラが演奏者を追う。三人の演奏者たちはそれぞれ別の場所で演奏を始め、9分のパフォーマンスの中で1度だけ一人の相手と巡り会う。二つのワイヤレスカメラは移動する二人のパフォーマーを終始追いつけている。移動するパフォーマーたちが発する音はワイヤレスマイクでミキサーに送信されるが、その際、ワイヤレス受信とIP音声通信を使用する。ここで提示する動画はある一回のテレマティックパフォーマンスの記録であり、種々レベルの遅延をそのまま記録しており、3台のカメラの動画を完全に同期した一つの動画として俯瞰するものである。三人の音楽家によるテレマティックパフォーマンスを俯瞰するビデオは、三つの物理スペースを時空間的に一望するものである。

Mikako Mizuno (Nagoya City University)

Composer/musicologist. Born in Japan, majored in aesthetics and graduated from Tokyo University (B.A.). After her formative years in Aichi Prefectural College of Arts and Music and getting her master degree for composition, Mizuno received doctor degree from Nagoya University (D.Eng.) in 2000 with the thesis concerning <space> in the contemporary music. She started to work at Nagoya City University in 1997, teaching sound design and music information theory. In 2016, she stayed in Paris as invited researcher of Université Sorbonne and researched the materials inherited from Pierre Schaeffer. Her music has been heard in a lot of locations including France(Bourges, Paris, Reims), Germany(Berlin, Köln), Austria(Salzburg, Linz, Vienna), Hungary(Budapest), Italy(Venice, Alba, Treviso, Udine), Republic of Moldova, ISEA, ISCM, EMS, Musicacoustica, ACMP, WOCCMAT, NIME, ICMC(2017,2018,2019,2021) and in several cities in Japan. More than twenty pieces of her computer music were premiered in JSEM concerts. Her pieces have been played by groups and performers such as Tokyo Symphony Orchestra, Central Aichi Symphony Orchestra, Hiroaki Ooi, Satoko Tange, Naoyuki Manabe, Kazuya Ota.

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Microcosm of Morning dew

Computer Music

凝成朝露，流动万物。以朝露观自然，自然反馈于朝露。本曲用水滴的声音作为采样素材，通过 GRMTOOLS、WAVES 等插件变形与安排，展现朝露的“身临其境”，身处自然，奉献自然。

As the morning dew appearing, which is created by the nature, all the things around are being flowed. Try to comprehend the nature through the morning dew, and the dew will show the fact. Composer used the water sound as the sample and tried to convey the natural purity, which was created and arranged by the GRMTOOLS, WAVES and so on .

MINGHUI LIN (Central Conservatory of Music)

MINGHUI LIN, majoring in Acoustic Electronic Music, is a student studying in the Central Conservatory of Music in China.

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《*General Xiaoye*》（孝烈将军）

Computer Music

"General Xiaolie" is an audiovisual electronic music created with human voices and opera percussion as sound materials. The original sound is based on the lyrics of the Chinese Henan opera "Mulan". During the Yining reign of Emperor Gongdi of Sui Dynasty, Turkic prisoner, Hua Mulan The woman pretended to be a man and joined the army on behalf of her father. In the Tang Dynasty, she was named "General Xiaolie".

The whole work is based on the "sound symbol" organization principle, and uses GTM tools, FabFilter, Waves and other plug-ins to transform, and finally organically integrate electronic music with traditional Chinese opera culture. The whole song is divided into three parts, A-B-A', which compares women's weakness and rigidity, so as to achieve the artistic effect of combining rigidity and flexibility.

《孝烈将军》是一部以人声、戏曲打击乐作为声音材料创作的幻听类电子音乐，原声取材于中国豫剧《花木兰》的唱词，隋恭帝义宁年间，突厥犯边，花木兰女扮男装，代父从军，到了唐代追封为“孝烈将军”。

整首作品基于“声音符号”组织原则，并使用GTM tools、FabFilter、Waves等插件进行变形，最终将电子音乐与中国传统戏曲文化有机的融合。全曲分为A-B-A'三个部分，将女子的柔弱与刚烈进行对比，从而达到刚柔并济的艺术效果。

Junran Wang (Central Conservatory of Music)

王珺然，中央音乐学院电子音乐作曲专业硕士研究生，师从关鹏教授。

学术类电子音乐作品：

Acousmatic Music类：《淬火》、《孝烈将军》

Mix类：《洞·道》（为埙与电子音乐而作）

多媒体类：《知无》

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Zen of Sound

Audio-visual

作者采样中国民族乐器声音为音乐动机，以声音设计的手法通过反转，拉伸，相位失真，梳状滤波器等技术手段处理声音。音乐结合中国戏曲节奏以及由静至动的声音设计理念，表达中国传统文化中的禅意。作者拍摄并剪辑佛罗伦萨的延时摄影为音乐制作影像，以相同的技术处理手段在东方的声音与西方的影像中寻找平衡。

I sampled the sounds of Chinese national instruments as musical motives, Sound design is used to process sound through techniques such as reverse, stretching, phase distortion, and comb filters. Music combines the rhythm of Chinese opera and the sound design concept from quiet to moving, Express the Zen in Chinese traditional culture. The author photographed and edited the time-lapse photography of Florence to Making images for music. Find a balance between Eastern sounds and Western images with the same technical processing.

Chen Si (Beijing University of Posts and Telecommunications)

陈思，北京邮电大学数字媒体与设计艺术学院讲师。本科毕业于中国戏曲学院作曲与作曲技术理论专业，音乐制作方向。硕士研究生毕业于意大利佛罗伦萨音乐学院音乐与科技专业，电子音乐作曲方向。曾在唱片公司担任音乐制作人，从事作曲、编曲、录音、影视配乐等工作。现任教于北京邮电大学数字媒体与设计艺术学院教授影视音乐创作及声音设计等相关课程。在意大利留学期间深受古典美学和当代艺术的熏陶以及实验电子音乐的影响，作品融合东西方艺术文化思维，注重与文学、绘画、数字媒体等其他艺术载体相结合，并放眼于交互式电子音乐的创作与发展。

个人电子音乐作品曾入选2017/2018/2019意大利佛罗伦萨多媒体艺术节，2017/2018北京国际电子音乐节，2018/2019/2020丹佛国际电子音乐作曲大赛等。

Chen Si, lecturer of School of Digital Media and Design Arts, Beijing University of Posts and Telecommunications. Graduated from the National Academy of Chinese Theatre Arts composition and composition technology theory, music production direction. Master graduate from Florence, Italy Music Institute of new technology music professional, electronic music composition direction. In the record company as a music producer, engaged in composition, arranger, recording, film and television music and so on. After teaching at the School of Digital Media and Design, Beijing University of Posts and Telecommunications, teaching film sound design and film and television animation music and other related courses.

In the Italian study abroad by the classical aesthetics and contemporary art of the influence and the influence of pioneer electronic music, the works of the integration of Eastern and Western artistic and cultural thinking, focusing on literature, painting, digital media and other art carrier combination, and Focus on the creation and development of interactive electronic music.

Personal electronic music works were selected in the 2017/2018/2019 Multimedia Art Festival in Florence, Italy.2017/2018 Beijing International Electronic Music Festival.2018/2019/2020 Denny awards International Electronic Music Competition , USA.etc.

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Curated by:

**Kerry Hagan
PerMagnus Lindborg
Mikako Mizuno
Takeyoshi Mori
Qi Mengjie Maggie**



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