Kiite Cafe: A Web Service for Getting Together Virtually to Listen to Music



Kosetsu Tsukuda, Keisuke Ishida, Masahiro Hamasaki, Masataka Goto National Institute of Advanced Industrial Science and Technology (AIST)

Unlike listening to music alone, listening to music with others adds the qualities

Feel social connection with othersLet others listen to one's favorite songs(e.g., attend a live concert)(e.g., introduce others to her favorite songs)





- Various social conditions can make it difficult to get together in person and listen to music with others
- We propose a web service, Kiite Cafe, that enables people to get together virtually to listen to music without losing the above qualities



Architecture 1

Visualization of each user's reactions to a played song



Four kinds of reactions: Favorite, Comment, Rotation, and Move
Kiite Cafe does not provide any guidance on when users use these functions because we want them to use it as they please

Architecture 2

Selection of played songs from users' favorite songs



Step 1: select a user from users who are logged in to Kiite Cafe
Step 2: select a played song from the user's favorite songs
Select a user/song fairly to diversify the played songs





Evaluation 2			
Reaction r	$avgdiv(S_u^{org})$	$avgdiv(S_u^r)$	p-value
Favorite	10.493	10.960	1.99×10^{-6}
Comment	10.384	10.920	4.40×10^{-3}
Rotation	10.502	10.918	5.80×10^{-6}
Move	10.559	11.050	8.21×10^{-9}
$\left(\right)$			

avgdiv(S^{org})/avgdiv(S^ru): song diversity before/after starting to use Kiite Cafe
 For all reactions, the diversity of songs producing reactions increases compared to that before starting to use Kiite Cafe
 Kiite Cafe is also useful for users to find songs that are different from their daily musical preferences

Evaluation 3



For all reactions, a user reacts to a played song more frequently as the number of users on Kiite Cafe increases For Favorite, Rotation, and Move, **the dwell time increases as the proportion of users who give that reaction increases**

Kiite Cafe has been used for several online events At an event on Aug. 29, 2020, a famous creator of VOCALOID songs made a specific playlist During the one-hour event, 140 Kiite Cafe users enjoyed simultaneously listening to the playlist Demonstrate a new style of online music events This kind of online event will also be valuable for users who cannot easily attend physical events for reasons such as geographic remoteness



Contributions

- Proposed the two architectures
- Implemented and released Kiite Cafe
- Described three user experiences and their effects on users
- By analyzing user behavior logs, we quantitatively showed that the architectures do provide the effects