Prototyping narrative representation system using a *Kabuki* dance and legendary story for the narration function of robots

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Abstract. This study focuses on two stories, *Kyōganoko Musume Dōjōji* and the legend of Dōjōji, which are deeply related to topics of love and sexuality. *Kyōganoko Musume Dōjōji* is a *kabuki* dance work that is an after-story of the legend of Dōjōji, but the performance comprises mainly dance; thus, the story is expressed only symbolically. Therefore, we attempt to develop a prototype system that associates the story of the legend of Dōjōji with the story of *Kyōganoko Musume Dōjōji*. Specifically, we focus on the positive and negative characteristics observed in the heroine, Shirabyoshi Hanako or Kiyohime and use them to associate the two stories. The proposed system aims to superimpose multiple stories based on a specific aspect of *Kyōganoko Musume Dōjōji*, the heroine's "mind," "action," and "lyrics" sung or narrated on the stage.

Keywords: Kabuki, Kyōganoko Musume Dōjōji, the legend of Dōjōji, narrative generation, narrative representation

1. INTRODUCTION

Some thinkers and philosophers state that communal and personal fiction and narratives play important roles in human societies and mentalities. For example, Takaaki Yoshimoto (1968) presented the idea of "communal illusion" to claim that various social institutions are supported by the people's common illusion or narrative. Additionally, Yuval Noah Harari (2014) discussed the human ability to construct fiction and narratives as the background or basis of their historical progression. We also believe that humans are essentially animals who are capable of imagination and fantasy. Additionally, according to Schank (1986), Minsky (1988), and Mueller (1990), emotions and stories play an important role in human problem-solving activities. In our research framework, "narratives" are the most powerful tools for humans to organize human imagination and fantasy, as well as emotion, to imaginatively simulate diverse aspects of human life. Therefore, robots, including house companion robots (Kheng, Dag, Kerstin & Michael, 2020), which possess artificial intelligence to be able to interact with humans, must maintain a narrative ability-related imagination. In the future, storytelling robots may be required.

Computer-based narrative generation (Ogata, 2019c; 2020a) has been previously researched. Love, sex, and sexuality are often the most important topics in a story. The themes of love and sex appear as representative narratives and literary works in every age. For example, *Genji Monogatari (The Tale of Genji)* in ancient Japan and *Decameron* in medieval Europe treated themes deeply related to love and sex in various hierarchies.¹ In the nineteenth century, *Madame Bovary* by Gustave Flaubert dealt

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¹In medieval ages from ancient times of Japan, women wrote many narrative works. One of the most important topics was human love and sex or sexuality. Works depicting homosexuality in both women and men also exist. Japanese literary 2589-9953 © 2022 – The authors. Published by IOS Press. This is an Open Access article distributed under the terms of the Creative Commons Attribution-NonCommercial License (CC BY-NC 4.0).

with immorality, and many novels by Soseki Natsume of Japan frequently describe the love triangles between two men and one woman. In the twentieth century, *A Farewell to Arms* by Ernest Hemingway and *Haru no Yuki (Spring Snow)* by Yukio Mishima drew a picture of pure love between a woman and a man. Additionally, extraordinary and extreme love and sex have been endorsed, including in the works of Marquis de Sade, Chikamatsu Monzaemon, Yukio Mishima, and Georges Bataille. It is necessary to include such subjects in the stories told by robots in the future.

Recognizing the importance of narrative for humans, as mentioned above, the goal of our studies, including this study, is to automate narrative generation. Specifically, we aim to present the concept of "narrative content works," including an automated narrative generation function that did not previously exist, and develop a system based on this framework. Furthermore, in one of our future studies, we hope to incorporate the developed functions into robots. Wicke and Veale (2018a) and Meza et al. (2016) introduced technologies focused on the relationship between robots and narrative generation or storytelling. In addition to the study of storytelling Veale (2017), research on human-robot interactions Wicke and Veale (2018b), robotic gestures Ham et al. (2011), educational support for children Kory and Breazeal (2014), movie descriptions Rohrbach et al. (2015), and narrative performances Wicke and Veale (2020) has been conducted. As mentioned below, a characteristic of our narrative generation study is the emphasis on the roles of narrative knowledge, such as the cultural and regional values of narratives and human emotions and behaviors regarding love and sex. We aim to connect narrative knowledge to robot technologies in the future. In particular, we plan to combine narrative generation systems using narrative knowledge with narration and actor robots. Cultural elements are also included in this knowledge because the environmental adaptation of robots is closely related to the cultural environment in which they act. Moreover, future robot technologies can accelerate exchange and communication among diverse cultures. In particular, we deal with narrative and literary works in Japanese culture. Another focal point is love and sex. Future robots that enter diverse human life scenes will necessarily be associated to love and sex. We believe that love and sex robots can function as media for considering various topics in gender studies.

In this study, we deal with narrative generation regarding love and sexuality, aiming at the implementation and application of future narration robots based on the aforementioned concepts. In particular, we deal with *kabuki* work and the related legendary story as materials and a cultural approach to introduce human elements of love and sexuality into narrative generation. We survey and analyze the characteristics of narrative materials from the viewpoint of the relationships between the positive or bright sides and the negative or dark sides of the narratives. This survey and analysis aim at systematization using a computer program, and this study presents a prototyping system based on a narrative survey and analysis. The following part of this introductory section explains *kabuki* as an important material in this study and describes the approach to the goal of this study.

In the context of the aforementioned cultural approaches, we focused on the narratives of *kabuki* (Ogata, 2016; 2018; 2019b; 2020a; 2020b; 2020d) in the process of narrative generation. *Kabuki* is a representative cultural heritage in Japan that incorporates various types of performing arts from dance and classical performance, such as $n\bar{o}$ and $ky\bar{o}gen$. *Kabuki* is not only a literary or narrative genere that is different from modern genres, such as those found in novels, but also a collection of traditional myths, legends, folktales, and other narratives, as well as a synthesized genre included in drama, narrative, and literature. Furthermore, because *kabuki* includes human vivid feelings and eroticism, as well as the primitive and symbolic feeling of love and sex, it can provide many hints and inspiration to approaching love and sex through narratives.

tradition includes the works of narrative, drama, and poetry that draw diverse types of loves and sexualities as a material trend.

Additionally, although *kabuki* is a traditional cultural heritage, it is not a traditional *geino* (the generic name of performing arts and entertainments) that has been preserved through national protection nor a cultural genre that has been continued as a private business. In contrast, the nation has frequently oppressed *kabuki*. To survive such disadvantageous conditions, *kabuki* has positively collected old narratives and entertainment and, simultaneously, contains the innovative energy required to introduce new technologies and ideas for reforming itself. For instance, contemporary *kabuki* uses new narrative genres, including manga and animation, as its materials and applies various video and computer technologies to representation. In particular, the essential feature of *kabuki* is the creation of new works through the fusion of tradition and modernity. While many studies have been conducted regarding its preservation and heritage, more recent studies have also investigated *kabuki* from the viewpoint of technology.

For example, many studies of *kabuki* have examined how video technology has been introduced to performance. Some researchers have analyzed the preservation of "Shosagoto" (the movements of actors) using motion capture. For example, Oda and Genda (2004) studied the characteristic movements of *kabuki* using a motion capture system. Omoto et al. (2004) created a model of Minamiza, a traditional *kabuki* theater, in Kyōto. Kobayashi (2018) focused on actors' movements, comparing Western dance in the ballet *La sylphide* with the Japanese dance *Kyōganoko Musume Dōjōji* to examine the creation of dances. The stage of *ningyō jōruri Hidakagawa Iriaizakura* was also reproduced remotely at the Tokyo University of Technology using a commercially available robot (desktop robot "Premade AI"). In contrast to these studies, we approached the narrative of *kabuki* from multiple viewpoints.

The significance of this study is that it treats *kabuki* as a research object and focuses on the narrative of *kabuki*, which has not previously been surveyed and analyzed from the viewpoint of systematization using artificial intelligence and cognitive science with respect to automated narrative generation. This is a challenge in intelligence systems research, including in artificial intelligence. *Kabuki* is interesting in that it is a narrative collection of many traditional Japanese narratives. Moreover, from the perspective of developing a system, the narrative of *kabuki* is a complex system that includes complicated diverse narratives that can be expressed in multiple forms. Similarly, the precise analysis of structures is an immensely important theme in research involving computer systems.

Kawai, Ono, and Ogata (2020a) prepared a method for approaching the theme, and the current study uses Japanese classical stories, including an old legend and the related *kabuki* work, to tackle the problem of story generation related to love and sexuality. We treated *Kyōganoko Musume Dōjōji (The Maiden at the Dōjōji Temple*), which is a famous *kabuki* dance work created in the eighteenth century. It is one of many works based on the "legend of Dōjōji," which has also been related to narratives and picture scrolls and is a latter-day description of the legend of Anchin and Kiyohime. Dōjōji is a temple of the Tendai sect in the Kumano area (in current Japan, Hidakachō, Hidaka, Wakayama prefecture). This temple is the subject of the legend of Dōjōji, which has been recorded for over a millennium. Although this legend has undergone many changes over its long history, it is still well known in Japan. Among the versions of this legend, we focus on the *kabuki* dance *Kyōganoko Musume Dōjōji*, which is considered to represent the modern form of the legend of Dōjōji. We also examined the stage performance structure of *Kyōganoko Musume Dōjōji* and the storyline of the legend of Dōjōji.

As an approach to *kabuki* story generation research, we analyzed the stage structure of the *kabuki* dance work *Kyōganoko Musume Dōjōji* Kawai and Ogata (2019) and developed a system to simulate it using a 2D animation (Kawai and Ogata, 2020; Kawai et al., 2020a). Furthermore, as the first step in

generating a love story, we analyzed two tales, the legend of Dojoji and Kyoganoko Musume Dojoji, and found that there are differences between the two (Kawai et al., 2020b). Moreover, we integrated narrative generation systems, including explanation generation, into the abovementioned simulation system (Kawai et al., 2020c). Kyōganoko Musume Dōjōji is based on the legend of Dōjōji, but as a symbolic kabuki work, the story of the legend is not concretely expressed. Therefore, in this study, we developed a prototype system to complement the story using the legend of the Dojoji temple. The purpose is to present a system that supplements Kyōganoko Musume Dōjōji using the background of the legend of Dojoji and to extend the simulation system of the stage performance structure. In this study, we focused on the fact that, although the background of Kyōganoko Musume Dōjōji is the legend of Dojoji, the rich story of the legend of Dojoji is not reflected in Kyoganoko Musume Dojoji, and forms a symbolic dance work. Although Kyōganoko Musume Dōjōji was based on the ancient legend of Dōjōji, all elements of the rich storyline of the legend of Dōjōji were excluded.² As introduced in Section 2.1, the legend of Dojoji is dark and cruel. In contrast, Kyoganoko Musume Dojoji is, if only briefly, colorized by a bright tone. However, the dark aspects from the legend of Dojoji appear frequently in Kyōganoko Musume Dōjōji. Therefore, although the kabuki dance Kyōganoko Musume $D\bar{o}j\bar{o}ji$ is a story of the legend of $D\bar{o}j\bar{o}ji$, it does not directly represent the story of the legend of $D\bar{o}j\bar{o}ji$. However, we found many hidden relationships between Kyōganoko Musume Dōjōji and the legend of Dojoji. From the viewpoint of love and sex that this study focuses on, although the narrative of the legend of Dojoji directly represents the contrasting sides of a woman's love and sexual desire toward a man, Kyōganoko Musume Dōjōji symbolically abstracts them behind the bright and flowery dance scenes.

Fundamentally, this study treats *Kyōganoko Musume Dōjōji* and the legend of Dōjōji, which is the background for conducting an analysis combining narratives, from the perspective of the contrast between the positive and negative characteristics of the heroine. A study on *kabuki* by Tamotsu Watanabe (1986) inspired this study. Watanabe's analysis method focuses on three elements of *kokoro* (mind) (representing human nature), *furi* (action (as small movements)) (meaning the genres of dances), and *kashi* (lyrics) (meaning the genres of songs) that continue to change through the dance of *Shirabyōshi* Hanako, the heroine of *Kyōganoko Musume Dōjōji*. We have inherited and developed this concept from the perspective of the system. We began by considering the relationships between *Kyōganoko Musume Dōjōji* and the legend of Dōjōji to precisely investigate various elements of the story of the legend of Dōjōji, which lurks in the symbolic narrative of *Kyōganoko Musume Dōjōji* (Kawai and Ogata, 2021; Kawai, Ono & Ogata, 2021a).

In this study, we assume that the mind and lyrics in the scene of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ are key to superimposing the legend of $D\bar{o}j\bar{o}ji$ and $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$. Moreover, we aim to develop a system that can express detailed stories based on legends from various parts of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ built on the correspondence of the legend of $D\bar{o}j\bar{o}ji$. For example, a bright scene in $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ is associated with scenes in the legend of $D\bar{o}j\bar{o}ji$ s that represent or symbolize Kiyohime's extreme love and sexual desire. Based on the analysis of the correspondence relationships between two of the narratives according to the three keys of mind, action, and lyrics, we propose a new system that combines $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and the legend of $D\bar{o}j\bar{o}ji$. This is an idea in which the scenes or events in the legend of $D\bar{o}j\bar{o}ji$ are associated with $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ based on the dark atmosphere that occasionally appears in mind, lyrics, and action. This study describes the development of two prototyping systems: (1) a 2D animation system that reproduces the stage performance structure of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and (2) a 3D animation system that complements

²Rather, it is the reason that $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ has been evaluated as one of the greatest works in all *kabuki* dance.

the story of $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$. Although the former system uses music, background, people, and dance of $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$, the dance is limited to a simple presentation because the purpose of the system is to represent the entire stage performance structure. These two systems are related to each other. We analyze the scenes of the legend of $D\bar{o}j\bar{o}ji$ and associate them with the scenes of $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$. The system based on the legend of $D\bar{o}j\bar{o}ji$ complements the system based on the stage performance structure of $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$ to represent a complementary explanation using visual imagery.

Therefore, this study extends and integrates the previous analysis of *Kyōganoko Musume Dōjōji* and its systematization and aims to present a novel concept regarding the system according to the storyline of the legend of Dōjōji to complement the former system. Although *Kyōganoko Musume* Dōjōji is a narrative work derived from the legend of Dōjōji, it does not directly describe the narrative of the legend of Dōjōji. In the proposed complementary system, the simulation system based on *Kyōganoko Musume Dōjōji* and the narrative system according to the legend of Dōjōji is ultimately combined to grant users an understanding of the relationships between the two narratives and ultimately enjoy the story of Dōjōji as a Japanese traditional narrative. We stated two types of narrative analyses, namely, research that integrates previous analysis results of the stage structures of *Kyōganoko Musume Dōjōji* and research that analyzes the storyline of the legend of Dōjōji, which ultimately allows the development of two types of systems. Artificial intelligence, which is pivotal to this study, is an engineering branch that has cognitive science as a basis. Because the motivation of this study is to explore the framework of human intelligence, analyses of research objects using various methods also serve as important steps in the development of artificial intelligence.

The remainder of this paper is organized as follows. Section 2 introduces surveys and analyses of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and the legend of $D\bar{o}j\bar{o}ji$. We present several tables representing the storyline of the legend of $D\bar{o}j\bar{o}ji$ and the stage performance structure of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$. Moreover, we discuss the relationship between the legend of $D\bar{o}j\bar{o}ji$ and $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ considering the duality of Kiyohime's characteristic in the legend of $D\bar{o}j\bar{o}ji$. Sections 3 and 4 describe a prototype system according to the flow of the system configuration, the algorithm, and the detailed descriptions based on the above analyses and considerations that use a 2D animation system that we have previously sought. Section 3.4 is the central part of this study, which states a system in which the 3D animation system is based on combining the analysis of the storyline of the legend of $D\bar{o}j\bar{o}ji$ and the legend of $D\bar{o}j\bar{o}ji$. In Section 5, we present the system implementation, problems with the developed system, and suggestions for future directions. Finally, Section 6 concludes the study.

2. THE LEGEND OF DŌJŌJI AND Kyōganoko musume Dōjōji

Although *Kyōganoko Musume Dōjōji* is a narrative work that was derived from the legend of Dōjōji, it does not directly describe the narrative of the legend of Dōjōji. In this study, we focus on the differences between scenes in the legend of Dōjōji and *Kyōganoko Musume Dōjōji*. In this section, we first explain the legend.

2.1. The legend of Dojoji and its storyline

The legend of Dōjōji has been handed down in different forms through picture scrolls and narratives for over 1,000 years. It is also called the legend of "Anchin and Kiyohime." The first form includes, for example, the 129th episode of *Honchō Hokke Genki* Dainihonkoku Hokekyō Genki (1977), "*Kii no Kuni Muro-gouri no Akujo*" (An Evil Woman in Muro, Kii Province), and "*Kii no Kuni Dōjōji no Sō Hōge wo Utsushite Hebi wo Sukuu Hanashi*" (A Monk of Dōjōji Temple in Kii Province Brings Salvation to Two Snakes by Copying the Lotus Sutra) in the 3rd Volume 14 of *Konjaku Monogatarishū (Japanese Tales from Times Past)* (1999). There is also *the Dōjōji Engi* Mabuchi (1983), which is a picture scroll of the Muromachi period. A bird's eye view of the works of the legend of Dōjōji reveals similarities in the lines of those stories. However, there are differences in scenes such as when the heroine turns into a snake and when crying because of sadness. *Dōjōji Engi* differs from the previous two in that a woman's perspective is apparent, such as a woman transforming into a snake that chases after the man, the woman narrating her mental state, and the woman being definitively defined as "the wife of the husband, Kiyotsugu no Shōjī' Yasuda (1989).

We provide a rough outline of the legend of Dōjōji. Anchin, a young monk, and an old monk are headed toward the Kumano region of Japan. On the way, the two monks are asked to stay in a private house where a young woman lives (the name of Kiyohime was given in the Edo period), and she falls in love with Anchin. She approaches Anchin that night, but he lies and leaves the next day, betraying her. Feeling bitter and hateful toward Anchin, she transforms into a big snake. Knowing this, Anchin and the old monk seek assistance from Dōjōji temple where Anchin is hidden in a bell. Kiyohime, on the other hand, finds him and kills him with a bell at the stake.

Narratives and music based on the legend of Dōjōji continued to be produced. Specifically, *Nō Dōjōji* Nishino (1998) according to *Nō Kanemaki*, which is not played currently, prepared the construction of the stage for performing *Kyōganoko Musume Dōjōji*. *Kyōganoko Musume Dōjōji* was played by Nakamura Tomijūrō I as part III of *kabuki*-drama *Otoko-date Hatsugai Soga* in March, Hōreki 3 (1753), at Nakamura-za of Edo (current Tokyo).

Honchō Hokke Genki, Konjaku Monogatari-shū, and *Dōjōji Engi* have similarities and differences. Kiyohime's love for Anchin was originally based on her pure personality. However, the love of a betrayed woman turns into jealousy, resentment, anger, and other intense emotions. Finally, she kills a monk in the bell of Dōjōji. This story is quite unusual but can be regarded as a sad love story represented by extreme love and actions derived from love.

The legend of Dōjōji has a comparatively clear storyline. In Table 1, we describe the synopsis of the legend, including six scenes and units based on *Honchō Hokke Genki*, *Konjaku Monogatarishā*, and *Dōjōji Engi*. In Table 1, "events" temporarily list the main episodes in each scene, and "components" show characters, places, times, and objects in each event. The third scene has a junction structure. The left junction shows the storyline of *Honchō Hokke Genki*, *Konjaku Monogatarishā*, and the right junction describes the storyline of *Honchō Hokke Genki*, *Konjaku Monogatarishā*, and the right junction describes the storyline of *the Dōjōji Engi*. Additionally, with regard to symbols P+, P, N, and N+ in the last part of each event, P and N, respectively, mean "positive" and "negative," and + is the emphasis mark. These symbols will be used to denote the correspondence between *Kyōganoko Musume Dōjōji* and the legend of Dōjōji, as explained in the next section.

2.2. Kyōganoko Musume Dōjōji

Although $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$ inherits the structure of $N\bar{o}$ $D\bar{o}j\bar{o}ji$, the story of the legend of $D\bar{o}j\bar{o}ji$ is not represented, except for the scene of the "Kaneiri." The objective of the lyrics written by Fujimoto Tobun Kineie (2018) is not to describe the story of the legend of $D\bar{o}j\bar{o}ji$, draw various images inspired by the legend, nor change the flow of the dance. In $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$, the legend of $D\bar{o}j\bar{o}ji$ itself is not described but retains the information that forms the background of the work.

The synopsis of *Kyōganoko Musume Dōjōji* is as follows: Shirabyōshi Hanako visits Dōjōji for a memorial service for the bell. Then, she performs a dance, but, in the end, reveals her true nature, climbs the bell, and glares at the monks of Dōjōji, and the performance ends. In the stage of this *kabuki* dance, the heroine *Shirabyōshi* Hanako displays a gorgeous and elegant dance, hoping for the memorial service of the bell of Dōjōji. The legend of *Kyōganoko Musume Dōjōji* is the after-story of Dōjōji. Hanako has already died; therefore, she is a ghost. In the final scene of the stage, Hanako transforms into a different figure from that of the previous scene, namely an evil and frightful large snake on top of the large bell placed on the right side of the stage. The monks of Dōjōji on the left side of the stage pray for the snake, that is, *Shirabyōshi* Hanako shows different appearances on stage. For example, while dancing, she shows herself as a beautiful daughter and a maiden in love. However, in the final scene, Hanako transforms into a big snake and glares at the surroundings from the top of the big bell installed on the stage. Thus, her appearance differs in each scene. Next, we explain the stage composition.

Kawai and Ogata (2019) referred to the analysis table regarding the narrative structure of *Kyōganoko Musume Dōjōji* presented by Watanabe (1986). Although this is a simple analysis table that describes Hanako's mind, action, the point of her body, lyrics, etc., to show her characteristics of the dance, we added many elements to it to interpret it as the main description of the stage performance structure of *Kyōganoko Musume Dōjōji*. Moreover, we created a detailed table representing the stage performance structure based on an analysis of the actual stage record (Kyōganoko Musume *Dōjōji*, 2003). Furthermore, Kawai, Ono, and Ogata (in press) created a table that included the flow, appearance image, and lyrics in each scene from the viewpoint of the simulation system of the *Kyōganoko Musume Dōjōji* performance structure. In this study, we created a new integrated table by synthesizing and adjusting these tables. Tables 2, 3, and 4 show the stage performance structures of three scenes: "*Chūkei no Mai*," "*Teodori* (2)," and "*Suzu-daiko*." The description unit in each table is based on a unit of Japanese lyrics.

Additionally, although Watanabe (1986) deals with 14 scenes, this study considers only 12 scenes until "Kaneiri" according to the above actual performance record. In these 12 scenes, one is a conversation between *a shoke* (a monk at $D\bar{o}j\bar{o}ji$ Temple.) In addition, it was a dance scene. This study focuses on the analysis of dance scenes.³

Notably, Hanako's mind changes quickly—from a ghost to an innocent girl in love. Among the dance scenes, there are more than five where the mind changes. For example, there is one called Chūkei no Mai. It is a scene where a fan called a *Chūkei* is incorporated in the dance. Here, Hanako has the mind of a daughter. Next, there is a scene called "Kudoki," where she is singing a poem about sadness and

³Although many recent stage performances of *Kyōganoko Musume Dōjōji* end at the scene of "*Kaneiri*," the scene of "*Oshimodoshi*" after "*Kaneiri*" is rarely played.

Scene	Components	Events in E	Cach Scene
[1] Kiyohime falls in love with Anchin	Characters: Anchin, Old monk, Kiyohime	Anchin, a young monk, and a on a pilgrimage. [P]	n old monk head to Kumano
at first sight.	Locations: Kumano, Private house	Anchin and the old monk stay	in a private house. [P]
	(Kiyohime's house), Road to temple visit (Kumano)	Kiyohime, who lives in the pr with Anchin at first sight. [P+	ivate house, falls in love -]
	Objects: –	Anchin lies to Kiyohime abou [N]	it visiting Kiyohime's house.
[2] Anchin betrays	Characters: Anchin, Old monk,	Anchin and the old monk leave	e Kumano. [P]
Kiyohime.	Kiyohime Locations: Kumano, Monks' temple	Anchin and the old monk mathematic temple. [N]	ke a detour and return to
	Time: – Objects: –	Kiyohime notices that Anchin	1 lied. [N]
[3] Kivohime's body	[3-1] Metamorphosis by grief	[3-1]	[3-2]
turns into a snake.	Characters: Kiyohime, Snake (Kiyohime)	Kiyohime is confined to her room. [N]	Kiyohime crosses the Kirime River. [N]
	Locations: Kiyohime's room Time: –	Kiyohime cries. [N]	Kiyohime chases Anchin. [N]
	Objects: – [3-2] Metamorphosis by fury Character:: Kiyohime Snake	Kiyohime's body turns into a snake. [N +]	Kiyohime sits on a rock in Ueno. [N]
	(Kivohime), Anchin		Kiyohime spits fire. [N+]
	Locations: Kirime River, On the rocks of Ueno		Kiyohime's body turns into a snake. [N+]
	Objects: Fire		
[4] Anchin and the old monk run	Characters: Anchin, Old monk, Passers-by, Snake (Kiyohime)	Anchin and the old monk hear snake is chasing them. [N]	r from a passers-by that a
away in a hurry.	Locations: Road (Kumano) Time: – Objects: –	Anchin and the old monk run	away in a hurry. [N]
[5] Kiyohime burns	Characters: Anchin, Old monk,	Anchin and the old monk flee	to Dōjōji Temple. [N]
Anchin to death in Dōjōji Temple.	Kiyohime (Snake), Monks of Dōjōji Temple	The monks of Dōjōji Temple Dōjōji. [N]	hide Anchin in the bell of
	Locations: Dōjōji Temple	The snake arrives at Dojoji Te	emple. [N]
	Objects: Bell of Dōjōji, Charred	The snake wraps around the b [N +]	ell where Anchin is hiding.
	corpse	The snake spits fire on the bel	l. [N+]
		The snake leaves. [N]	
		The monks of Dojoji Temple	look inside the bell. [N]
		The monks of Dōjōji Temple corpse. [N]	find Anchin's charred
[6] Anchin and	Characters: High-ranking old monk,	That night, a high-ranking old	l monk has a dream. [N]
Kiyohime are reincarnated	Monks of Dojoji Temple, Anchin, Kivohime	In that dream, Anchin and Kiyohime appear as snakes. [N]	
through the Lotus	Locations: Dōjōji Temple, In the	Anchin and Kiyohime ask the	old monk for salvation. [P]
Sutra.	dream of an old monk Time: Night	The old monk and the monks of Dōjōji Temple continue to chant the Lotus Sutra at Dōjōji Temple. [P]	
	Objects:	the old monk's dreams. [P+]	chin and Kiyohime appear in
		Anchin and Kiyohime thank t Anchin and Kiyohime disappo	he old monk. [P] ear from the dream. [P]

Table 1 Details of scenes in the legend of Dōjōji

love. Here, the mind has changed to a daughter in love. In the final scene, with a bell, Hanako reveals her true nature and turns into a snake. She then climbs onto the bell and glares around the stage, and the performance ends. In this way, Hanako's mind changes multiple times.

The meanings of the "components" in Tables 2, 3, and 4 are shown in Table 5.

2.3. Associating the legend of Dojoji with Kyoganoko Musume Dojoji based on Kiyohime's duality

In the legend of $D\bar{o}j\bar{o}ji$, the snake is sometimes treated as a negative symbol because Kiyohime is transformed into one by negative emotions (anger and jealousy).⁴ Kiyohime has two aspects or characteristics, and we can interpret that the legend of $D\bar{o}j\bar{o}ji$ is a narrative in which the positive aspect of Kiyohime changes to a negative aspect. Kiyohime's mind is currently polarized, but there is also a method of classifying the mind and observing changes in them. We believe that a method for expressing the gradation of the mind, which gradually changes from positive to negative, can be generated as a love story. Although *Kyōganoko Musume Dōjōji* is a *kabuki* dance work drawn in bright color in general, as shown in Tables 2, 3, and 4, it contains Kiyohime's negative side. We consider this duality of this work based on mind, action, and lyrics to represent the association between *Kyōganoko Musume Dōjōji* and the legend of Dōjōji.

Kawai, Ono, and Ogata (in press) focused on Kiyohime's two-sided features in the story of the legend of $D\bar{o}j\bar{o}ji$, namely, the aspect of a pure girl who loves a young monk and a girl who goes berserk and betrays him. They divided the scenes of the legend of $D\bar{o}j\bar{o}ji$ into **P** scenes corresponding to the former and the **N** scenes corresponding to the latter. We divided *Kyōganoko Musume Dōjōji* into **P** and **N** scenes, as shown in Tables 2, 3, and 4.

Additionally, Watanabe (1986) mentioned that the mind, action, and lyrics in Kyōganoko Musume $D\bar{o}j\bar{o}ji$ individually have complex structures. Even if the "mind" of a scene is "a pure girl," her action and lyrics are not necessarily consistent with the mind. For instance, the dance showing the "mind" of "a pure girl" can include contrasting "action" and "lyrics." According to Watanabe (1986), such complexity is an essential characteristic of Kyōganoko Musume Dōjōji. Ogata (2019d) expounded such a narrative feature as a rich form of narrative that is different from the hierarchically organized narrative form claimed by Aristotle (1997). Such a narrative principle indicates that narrative work does not necessarily need to be constructed based on psychological reality. In Japanese literary tradition, for example, the mentalities of many characters of Genji Monogatari have the psychological traits that modern people can sympathize with. Simultaneously, the narrative works of kabuki contain many scenes, episodes, and characters' mentalities and actions that modern people cannot sympathize with. However, when we view them from the perspective of the representation effects of narrative, kabuki, irrational, at a glance, frequently have impressive dramatic and narrative effects on the audience. Japanese narratives have many elements familiar with "realistic" norms. Kyōganoko Musume Dōjōji is a typical work.

⁴However, snakes also have different symbolic meanings in Japan. Kondo (2012) shows that, while snakes have a nature that people dread, they are also a symbol of God and pacifists. For example, they may represent not only fear but also men and women and of peace. Thus, snakes do not always have a negative image. Additionally, Takano and Nishi (2007) explain the factors that make individual creatures anthropomorphic as written in a picture scroll, whereas the animals (mainly foxes, dogs, and rabbits) that appear in $Ch\bar{o}j\bar{a}$ -giga have anthropomorphic characteristics. It aims to clarify the characteristics of living things and their relationship with humans. For the details of the contents, please refer to the actual paper.

Detailed structure of the scene of "Chūkei no Mai"

Scenes	Components	1	2	3	4
中啓の舞	The flow of the	乱拍子に続いて、白	拍子花子は、能の鐘つ	くしに従って、本舞台	言の中央で踊る。
[Chūkei no	stage performance	[Continuing from <i>Ranbyöshi</i> , <i>Shirabyöshi</i> Hanako perform a <i>Nö</i> -style dance at the center of the main store in ture with <i>Kanawluchi</i>]			
	Time	$23.03 \sim 23.16$	$\frac{23.03 \times 23.16}{23.18 \times 23.44} = \frac{23.45 \times 24.13}{23.41} = \frac{24.14 \times 24.41}{24.14 \times 24.41}$		
		23.05 23.10	23.10 23.11	23.45 24.15	
	Character	日拍子化子	日相子化子	日拍子化子	日相子化子
		[Snirabyosni Hanako]	[Shirabyoshi Hanako]	[Snirabyosni Hanako]	[Snirabyosni Hanako]
	i [Kokoro: Mind]	加加K0] 娘 [Musume: Girl]	如 [Musume: Girl]	加加KO] 娘 [Musume: Girl]	加加KO] 娘 [Musume: Girl]
	(P)	(P)	(\mathbf{P})	(P)	(P)
	振り [Furi:	白拍子	白拍子	白拍子	白拍子
	Action]	[Shirabyōshi] (P)	[Shirabyōshi] (P)	[Shirabyōshi] (P)	[Shirabyōshi] (P)
	歌詞 [Kashi:	鐘に恨みは数々ご	初夜の鐘を撞く時	諸行無常と響くな	後夜の鐘を撞く時
	Lyrics]	ざる [Kane ni	lt [Shoya no kane	9 [Shogyō-mujyō	は [Goya no kane
		urami ha kazukazu	wo tsuku toki ha]	to hizbiku nari] (N)	(\mathbf{N}) wo tsuku toki haj
	Scenes of the	N	N	N	N
	legend of Dōjōji				
	Music genres and	能 (鐘づくし) [Nō	能 (鐘づくし) [Nō	能 (鐘づくし) [Nō	能 (鐘づくし) [Nō
	characteristics	(Kane-zukushi)]	(Kane-zukushi)]	(Kane-zukushi)]	(Kane-zukushi)]
	Katarite	Katarite (8 people)	Katarite (8 people)	Katarite (8 people)	Katarite (8 people)
	[Narrators]/ Utaite				
	Ensösha	三味線 [Shamisen]	 三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]
	[Musicians]	(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓
		[Taiko: Drum] (2	[Taiko: Drum] (2	[Taiko: Drum] (2	[Taiko: Drum] (2
		people)	people)	people)	people)
	Gakki [Musical	三味線 [Shamisen],	三味線 [Shamisen],	三味線 [Shamisen],	三味線 [Shamisen],
	instruments	小鼓 [Kozutsumi], 大鼓 [Taika] 笠	小豉 [Kozutsumi], 士鼓 [Taika] 笠	小鼓 [Kozutsumi], 大鼓 [Taika] 笠	小鼓 [Kozutsumi], 大鼓 [Taika] 笠
		$[K_{\text{M}}]$	$[X \oplus [Iuiko], \oplus]$	$[K_{\text{M}}]$	[Fue]
	下座 [Geza:	-	-	-	-
	Background				
	music]/ 拍子板				
	[Hyoshuta: Woodon alannarol				
	Scene	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々
	Stelle	のある庭 [The	のある庭 [The	のある庭 [The	のある庭 [The
		garden of cherry	garden of cherry	garden of cherry	garden of cherry
		blossoms of Dōjōji]	blossoms of Dōjōji]	blossoms of Dōjōji]	blossoms of Dōjōji]
	The place on stage	本舞台 (中央)	本舞台 (中央)	本舞台 (中央)	本舞台 (中央)
		[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main
	Ishā [Costume]	stage (Center)] 赤 [Aka: Red]	stage (Center)] 赤 [<i>4ka</i> : Red]	stage (Center)] 赤 [Aka: Red]	stage (Center)] 赤 [<i>4ka</i> : Red]
	Isno [Costume]	ji [intu: Red]	with [mail read]	ji [ind. Red]	of [ind. Red]
	Kodōgu [Small	中啓 [Chūkei]	中啓 [Chūkei]	中啓 [Chūkei]	中啓 [Chūkei]
	props]				
	Stage equipment	道成寺 [Dōjōji],	道成寺 [Dōjōji],	道成寺 [Dōjōji],	道成寺 [Dōjōji],
		理 [Kane: Kane]:, 松の木と芯	理 [Kane: Kane]:, 桜の木と芯	理 [Kane: Kane]:, 松の木と芯	理 [Kane: Kane]:, 巡のオレガ
		Sakura no ki to	Sakura no ki to	Sakura no ki to	[Sakura no ki to
		hana: Cherry trees	hana: Cherry trees	hana: Cherry trees	hana: Cherry trees
		and blossoms]	and blossoms]	and blossoms]	and blossoms]
	Nikutai no point	足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]
	[The point of the				
	uancer's body		1		

In this study, we consider that the mind, action, and lyrics individually represent the emotions and characteristics of Hanako to analyze them more precisely. According to Tables 2, 3, and 4, regarding the actions and lyrics in 11 scenes, we focused on the parts that have characteristics different from the mind of each scene.

(Continued)

5	6	7	8	9	10
24:42 ~ 25:10	25:11~25:41	25:42~26:11	26:12~26:48	26:50~27:17	27:19~27:52
白拍子花子	白拍子花子	自拍子花子	白拍子花子	白拍子花子	白拍子花子
[Shirabyōshi	[Shirabyōshi	[Shirabyōshi	[Shirabyōshi	[Shirabyōshi	[Shirabyōshi
Hanako]	Hanako]	Hanako]	Hanako]	Hanako]	Hanako]
娘 [Musume: Girl]	娘 [Musume: Girl]	娘 [Musume: Girl]	娘 [Musume: Girl]	娘 [Musume: Girl]	娘 [Musume: Girl]
(\mathbf{P})	(\mathbf{P})	(\mathbf{P})	(\mathbf{P})	(P)	(\mathbf{P})
					日相子
[Shirabyoshi] (P) 具生词注 L 郷ノム	[Shirabyoshi](P) 早胡の郷さけ生	[Shirabyoshi](P)	[Shirabyoshi](P) 問いて敬人人れた	[Shirabyoshi](P) われれ工陪の電哇	[Shirabyoshi](P) 百加の日を恥め明
走主 (成 伝 C 音 \ な り 「Zaguā mannā to	辰朝の音さは主 減力己 <i>Linius</i> no	八怕は秋劔 向来 C 響くたり [Iniai ha	III V ¹ C馬 \ 八 も な	われる 山陸の 去明 わて 「Wawa wo	具知の月を眺め明 かさん [Chin/muo
9 [Zesyo-meppo to hibiku nari] (N)	$\psi \otimes \mathcal{A} \subseteq [Jinjyo no]$	音、なり [Iriai na jakumatsu jraku to	bito mo nashil (N)	ac [ware mo	$\mathcal{N} \in \mathcal{N}$ [Shin hyo
	metsuil (N)	hihiku nari] (N)		harete] (P)	akasan] (P)
N	N	N	N	P または P +	P または P+
能 (鐘づくし) [Nō	能 (鐘づくし) [Nō	能 (鐘づくし) [Nō	能 (鐘づくし) [Nō	能 (鐘づくし) [Nō	能 (鐘づくし) [<i>Nō</i>
(Kane-zukushi)]	(Kane-zukushi)]	(Kane-zukushi)]	(Kane-zukushi)]	(Kane-zukushi)]	(Kane-zukushi)]
Katarite (8 people)	Katarite (8 people)	Katarite (8 people)	Katarite (8 people)	Katarite (8 people)	Katarite (8 people)
三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]
(8 people),太鼓	(8 people),太鼓	(8 people),太鼓	(8 people),太鼓	(8 people),太鼓	(8 people),太鼓
[Taiko: Drum] (2	[Taiko: Drum] (2	[Taiko: Drum] (2	[Taiko: Drum] (2	[Taiko: Drum] (2	[Taiko: Drum] (2
people)	people)	people)	people)	people)	people)
二味線 [Shamisen],	二味線 [Shamisen],	二味線 [Shamisen],	二味線 [Shamisen],	二味線 [Shamisen],	二味線 [Shamisen],
小豉 [Kozutsumi],	小豉 [Kozutsumi],	小豉 [Kozutsumi],	小豉 [Kozutsumi],	小蚊 [Kozutsumi],	小豉 [Kozutsumi],
人 <u>或</u> [<i>Taiko</i>], 由	太 <u></u> 取 [<i>Taiko</i>], 由	人 <u>致</u> [<i>Taiko</i>], 由	太蚊 [<i>Iaiko</i>], 由	人 <u></u> 」[<i>Taiko</i>], 由	人 <u>取</u> [<i>Taiko</i>], 由
[Fue]	[Fue]	[Fue]	[Fue]	[Fue]	[Fue]
-	-	-	-	-	-
道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々
のある庭 [The	のある庭 [The	のある庭 [The	のある庭 [The	のある庭 [The	のある庭 [The
garden of cherry	garden of cherry	garden of cherry	garden of cherry	garden of cherry	garden of cherry
blossoms of Dōjōji]	blossoms of Dōjōji]	blossoms of Dōjōji]	blossoms of Dōjōji]	blossoms of Dōjōji]	blossoms of Dōjōji]
本舞台 (中央)	本舞台 (中央)	本舞台 (中央)	本舞台 (中央)	本舞台 (中央)	本舞台 (中央)
[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main
stage (Center)]	stage (Center)]	stage (Center)]	stage (Center)]	stage (Center)]	stage (Center)]
赤 [Aka: Red]	赤 [Aka: Red]	赤 [Aka: Red]	赤 [Aka: Red]	赤 [Aka: Red]	赤 [Aka: Red]
中啓 [Chūkei]	中啓 [Chūkei]	中啓 [Chūkei]	中啓 [Chūkei]	中啓 [Chūkei]	中啓 [Chūkei]
道成寺 [Dōjōji],	道成寺 [Dōjōji],	道成寺 [Dōjōji],	道成寺 [Dōjōji],	道成寺 [Dōjōji],	道成寺 [Dōjōji],
鐘 [Kane: Kane]:,	鐘 [Kane: Kane]:,	鐘 [Kane: Kane]:,	鐘 [Kane: Kane]:,	鐘 [Kane: Kane]:,	鐘 [Kane: Kane]:,
桜の木と花	桜の木と花	桜の木と花	桜の木と花	桜の木と花	桜の木と花
[Sakura no ki to	[Sakura no ki to	[Sakura no ki to	[Sakura no ki to	[Sakura no ki to	[Sakura no ki to
hana: Cherry trees	hana: Cherry trees	hana: Cherry trees	hana: Cherry trees	hana: Cherry trees	hana: Cherry trees
and blossoms]	and blossoms]	and blossoms]	and blossoms]	and blossoms]	and blossoms]
足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]

Kyōganoko Musume Dōjōji has fewer scenes in common with the legend of Dōjōji than *Dōjōji Engi*, *Hokke Genki*, and *Konjaku Monogatari shū*. It has a thin narrative, is abstract, and does not specifically express the story of the legend of Dōjōji. However, some scenes of *Shirabyōshi* Hanako correspond to those in the legend of Dōjōji. Figure 1 shows the correspondence between the story of the legend of Dōjōji and *Kyōganoko Musume Dōjōji*. As shown in the figure, the latter uses only two scenes related to the legend of Dōjōji: "*Michiyuki*" and "*Kaneiri*." Both show the true nature of *Shirabyōshi* Hanako.

Figure 1 shows the correspondence between *Kyōganoko Musume Dōjōji* and the legend of Dōjōji at the macrolevel. Although this figure indicates that many of the parts of the story of the legend of Dōjōji are not included in *Kyōganoko Musume Dōjōji* several scenes or images in the legend of Dōjōji are reflected in the stage of *Kyōganoko Musume Dōjōji*. This study focuses on the legend of Dōjōji,

Detailed structure of the scene of "Teodori (2)"

手通り(2) The flux of the stage performace 日田市で、市内、 (Feedori C3) The flux of the stage performace 日田市で、 (Feedori C4) Hadderican (Feedori C4) Hadderican (Feedorican) Hadderican (Feedorican) Hadderican (Feedorican) Hadderican (Feedorican) Hadderican (Feedorican) Hadderican (Feedorican) Hadderican (Feedorican)	Scenes	Components	1	2	3	4
[Fonderi G2] stage performace ディンズム」の言葉に従って、第6.2 (Mizadynösh Hanako respects on the stage with nothing and performs the center of the minis stage along with Hanako respects on the stage with nothing and performs the center of the minis stage along with Hanako respects on the stage with nothing and performs the center of the minis stage along with Hanako respects on the stage with nothing and performs the center of the minis stage along with Hanako respects on the stage with name of the period with Hanako respects on the stage with name of the period with Hanako respects on the stage with name of the period with the stage with name of the period with the stage with name of the period with the period	手踊り (2)	The flow of the	白拍子花子が、小道	具を持たずに、舞台中	中央に再度登場する。 そ	そして、「娼婦のエロ
In nothing and performs at the center of the main stage along with Hauta (the music of "shoftin no croticism").Time101:11-101:19101:20-101:42101:43-102:07102:08-102:13Characters1547 ft ℓ^{-1} (Shirabyöshi Hamako)1647 ft ℓ^{-1} (Shirabyöshi Hamako)1647 ft ℓ^{-1} (Shirabyöshi Hamako)1647 ft ℓ^{-1} (Shirabyöshi Hamako)(N) $\delta f \mathcal{R} \mathcal{R} \otimes \mathfrak{P} \otimes \mathfrak{P} \otimes \mathfrak{P} \mathfrak{R} \mathcal{R}$ (N) $\mathfrak{R} \mathcal{R} \otimes \mathfrak{P} \otimes \mathfrak{P} \otimes \mathfrak{R} \mathcal{R}$ (Manage to musime no shifto: Jealousy of the girl of to shifto: Jealousy of the girl of $\mathcal{R} \otimes \mathfrak{R} \otimes $	[Teodori (2)]	stage performace	ティシズム」の音楽	に従って、踊る。 [Sh	<i>irabyōshi</i> Hanako reapp	ears on the stage with
Time $101:11-101:19$ $101:20-101:42$ $101:43-102:20$ $102:208-102:13$ Characters $128:7E + T$ $150:rab/rokit128:7E + T150:rab/rokit128:7E + T128:rab/rokit128:7E + T$			nothing and performs a no eroticism").	at the center of the main	stage along with Hauta (the music of "shōfu
Characters $\Box h = 7k + 7$ $[Shirolybohi\Box h = 7k + 7[Shirolybohi\Box h = 7k + 7k$		Time	1:01:11~1:01:19	1:01:20~1:01:42	1:01:43~1:02:07	1:02:08~1:02:13
Shradyöshi Hanako] Shradyöshi Hanako] Shradyöshi Hanako] Shradyöshi Hanako] Hanako] Hanako] Hanako] Windogon (N) Järkt2.950/9501 Hanako] Hanako] Hanako] Manage no musume no shitto: Jealousy of the girl of Win [Kashi: t.ct [Win [M] Yingin (P) Yingin (P) Yingin (P) Win [Kashi: t.ct [Win [M] Yingin (P) Yingin (P) Scenes of the legend of Döjöji P+ P+ P+ Music genres and characteristics Pint [Huta] ##aj [Hauta] ##aj [Hauta] Music genres and characteristics Jinki (P) Jinki (P) Zi [Shöhu no eroticism: Prostitute's Fostitute's eroticism: Ewski [Shamisen] Ewski [Shamisen] Ewski [Shamisen] Musicianj eroticism: Ewski [Shamisen] Ewski [Shamisen] Ewski [Shamisen] Musicianj eroticism: Ewski [Shamisen] Ewski [Shamisen] Ewski [Shamisen] Musicianj instrumenti Ewski [Shamisen] Ewski [Shamisen] Ewski [Shamisen] Musicianj instrumenti Ewsfe (repu) Ewski [Charuski] <th></th> <th>Characters</th> <th> 白拍子花子</th> <th>白拍子花子</th> <th> 白拍子花子</th> <th>白拍子花子</th>		Characters	白拍子花子	白拍子花子	白拍子花子	白拍子花子
· (Kokore: Mind) Hanako] Hanako] Hanako] Hanako] Hanako] Hanako] Hanako] Janako] Janako <			[Shirabyōshi	[Shirabyōshi	[Shirabyōshi	[Shirabyōshi
① Koknor: Mindi (N) 黄素児の強の凝結 mo shito: Jealousy of the girl of Manage on musime mo shito: Jealousy of the girl of Manage on musime mo shito: Jealousy of the girl of Manage on musime mo shito: Jealousy of the girl of Manage (N) 黄素児の強の凝結 Manage on musime mo shito: Jealousy of the girl of Manage (N) 黄素児の強の凝結 Manage on musime mo shito: Jealousy of the girl of Manage (N) 数 東景見 (Kimusume: Virgin) (P) 生類 (Kimusume: Uirgin) (P) 生類 (Kimusume: Prostitute's erroricism: Prostitute's 生類 (Kimusume: Prostitute's erroricism: Prostitute's 生類 (Kimusume: Prostitute's erroricism: Prostitute's 生業 erroricism: Prostitute's 生業 erroricism: Prostitute's 算用 (Hauta) Prostitute's erroricism: Prostitute's ##! (Hauta) Prostitute's erroricism: Prostitute's ##! (Hauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's erroricism: Prostitute's ##! (Fauta) Prostitute's ##! (Fauta) Prostitute's ##! (Fauta) Prostitute's ##! (Fauta) Prostitute's Katarrite [Insergers] ##! (Fauta) Prostitute's ##! (Fauta) Prostitute's ##! (Fauta) Prostitute's ##! (Fauta) Prostitute's ##!			Hanako]	Hanako]	Hanako]	Hanako]
(N) [Manage no musume no shifts: Jealousy of the girl of Manage (N) [Manage no musume no shifts: Jealousy of the girl of Manage (N) [Manage no musume no shifts: Jealousy of the girl of Manage (N) [Manage no musume no shifts: Jealousy of the girl of Manage (N) [Manage no musume no shifts: Jealousy of the girl of Manage (N) [Manage no musume no shifts: Jealousy of the girl of Manage (N) [Manage no musume no shifts: Jealousy of the girl of Manage (N) [Manage no musume mostifie: Jealousy of the girl of Yealousy mostifie: Jealousy mostifie: J		心 [Kokoro: Mind]	真奈児の娘の嫉妬	真奈児の娘の嫉妬	真奈児の娘の嫉妬	真奈児の娘の嫉妬
no shitto: Jealousy of the girl of Manago] (N) Manago] (N) Manago		(N)	[Manage no musume	[Manage no musume	[Manage no musume	[Manage no musume
of the girl of Manago (N) Atmaago (N) Attraction (P) Scenes of the legend of Dojoji Atmaago (P) Atmaago (P) Atmaa			no shitto: Jealousy	no shitto: Jealousy	no shitto: Jealousy	no shitto: Jealousy
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[Narrators] Cluite [Singers] 三味線 [Shamisen] (8 pcople), 大鼓 [Taiko] (2 pcople), 笛 [Fue] (2 pcople) 三味線 [Shamisen] (8 pcople), 大鼓 [Taiko] (2 pcople), 笛 [Fue] (2 pcople) 三味線 [Shamisen] (7aiko] (2 pcople), 笛 [Fue] (2 pcople) 三味線 [Shamisen] (7aiko] (2 pcople), 笛 [Fue] (2 pcople) 三味線 [Shamisen] (7aiko] (2 pcople), 笛 [Fue] (2 pcople) 三味線 [Shamisen], 小鼓 [Kozutsumi], 大鼓 [Taiko], 笛 [Fue] 三味線 [Shamisen], 小鼓 [Kozutsumi], 大鼓 [Taiko], 笛 [Fue] 三味線 [Shamisen], 小鼓 [Kozutsumi], 大鼓 [Taiko], 笛 [Fue] 三味線 [Shamisen], 小鼓 [Kozutsumi], 大鼓 [Taiko], 笛 三味線 [Shamisen], 小鼓 [Kozutsumi], 大鼓 [Taiko], 笛 三味線 [Shamisen], 小支 [Kozutsumi], 大鼓 [Taiko], 笛 三upple] 三upple] Thu 三upple] Image: Subsection of Cherry blossoms of Döjöji] Image: Subsecheretion Image: Subsection of		Katarite	Utaite (8 people)	Utaite (8 people)	Utaite (8 people)	Utaite (8 people)
[Singers]三味線 [Shamisen]三味線 [Shamisen]三味線 [Shamisen][Musicians]三味線 [Shamisen](8 people), 太鼓 [Taiko] (2 people), 笛 [Fue] (2 people)三味線 [Shamisen] (8 people), 太鼓 [Taiko] (2 people), 笛 [Fue] (2 people)三味線 [Shamisen], (Patel (2 people), 面 [Fue] (2 people), 面 [Fue] (2 people), 面 [Fue] (2 people), 太鼓 [Taiko], 笛 [Fue]三味線 [Shamisen], 小鼓 [Kozutsum], 太数 [Taiko], 笛 [Fue]三味線 [Shamisen], (Kozutsum], 太数 [Taiko], 笛 [Fue]三味線 [Shamisen], (Sozutsum], 太数 [Taiko], 笛 [Suctan and cherry blossoms of Döjöji]三味線 [Shamisen], (Kozutsum], 太数 [Taiko], 笛 [Fue]三味線 [Shamisen], (Suctan and cherry blossoms of Döjöji]三味線 [Shamisen], (Kozutsum], (Kozutsu		[Narrators]/ Utaite				
Ensösha 二味緑 [Shamisen] 二味緑 [Shamisen] 二味緑 [Shamisen] 二味緑 [Shamisen] [Musicians] (B people), 太鼓 [Taiko] (2 people), tbg [Taiko], ff [Taiko], ff <th></th> <th>[Singers]</th> <th></th> <th></th> <th></th> <th></th>		[Singers]				
Musicians] (B pcople), 大致 [Tatiko] (2 pcople), 街 [Fue] (2 pcople), T text [Fue] 下座 Background music]/ 拍子板 [Hyöshitue: wooden clappers] - - - Scene 道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dõjõji] 道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dõjõji] 道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dõjõji] 基本舞台 (中央) [Hon-butai: Main stage (center)] 基本舞台 (中央) [Hon-butai: Main stage (center)] 基本舞台 (中央) [Hon-butai: Main stage (center)] 本舞台 (中央) [Hon-butai: Main stage (center)] # [Murasaki: Wurasaki: Wurasaki: # [Murasaki: Wurasaki: Wurple] # [Murasaki: Wurple] # [Murasaki: Wurple] # [Murasaki: Wurple] # [Murasaki: Wook 2 & & [Sakura no ki to hana: Cherry trees and blossoms] ゴ 成寺 [Dõjõji],		Ensōsha	二味緑 [Shamisen]	二味線 [Shamisen]	二味線 [Shamisen]	二味線 [Shamisen]
[Iarko] (2 people)、 [Iarko] (2 people) [Iarko] (1arko] (2 people) [Iarko] (1arko] (2 people) [Iarko]		[Musicians]	(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓
\mathbf{a} $[Fue]$ (2 people) \mathbf{a} <th></th> <th></th> <th>[<i>Taiko</i>] (2 people),</th> <th>[<i>Taiko</i>] (2 people),</th> <th>[<i>Taiko</i>] (2 people),</th> <th>[<i>Taiko</i>] (2 people),</th>			[<i>Taiko</i>] (2 people),	[<i>Taiko</i>] (2 people),	[<i>Taiko</i>] (2 people),	[<i>Taiko</i>] (2 people),
Gakk [Musical instruments] 二味練 [Shamisen], 小鼓 [Kozutsumi], 太鼓 [Taiko], 笛 [Fue] 下座 [Geza: Background music]/ 拍子板 [Hyōshiita: wooden clappers] - - - - Scene 道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dõjõji] 道成寺old (Hon-butai: Main stage (center)] 道成寺 (Dojõji] <i>Ishō</i> [Costume] 葉 [Murasaki: Purple] 本舞台 (中央) [Hon-butai: Main stage (center)] 本舞台 (中央) [Hon-butai: Main stage (center)] 本舞台 (中央) [Hon-butai: Main stage (center)] 本舞台 (中央) [Hon-butai: Main stage (center)] 本 stage (center)] 本 stage (center)] 本 stage (center)] Stage equipments 道成寺 [Dõjõji], 鑽 [Kane: Kane]; 桜 の木と花 [Sakura no ki to hana: Cherry trees and blossoms] 道成寺 [Dõjõji], 鑽 [Kane: Kane]; 桜 on k と花 道成寺 [Dõjõji], 鑽 [Kane: Kane]; 桜 on k と花 道成寺 [Dõjõji], 續 [Kane: Kane]; Won k と花 道成寺 [Dõjõji], 續 [Kane: Kane]; Won k と花 道成寺 [Dõjõji], 續 [Fe: Hands] 手 [Te: Hands] 手 [Te: Hands]			笛 [Fue] (2 people)	笛 [Fue] (2 people)	笛 [Fue] (2 people)	笛 [<i>Fue</i>] (2 people)
Instruments 小数 [Kozutsumi], Kzg [Taiko], 笛 [Fue] 小数 [Kozutsumi], Kzg [Taiko], 笛 [Fue] 小数 [Kozutsumi], Kzg [Taiko], 笛 [Fue] 小数 [Kozutsumi], Kzg [Taiko], 笛 [Fue] 下座 [Geza: Background music]/ 拍子板 [Hyōshiita: wooden clappers] - - - - Scene 道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dōjōji] - - - The place on stage 本舞台 (中央) [Hon-butai: Main stage (center)] 本舞台 (中央) [Hon-butai: Main stage (center)] 本舞台 (中央) [Hon-butai: Main stage (center)] 本舞台 (中央) [Hon-butai: Main stage (center)] * - Stage equipments 道成寺 [Dōjōji], 鐘 [Kane: Kane];, 桜の木と花 道成寺 [Dōjōji], 鐘 [Kane: Kane], 桜o 木と花 道成寺 [Dōjōji], 鐘 [Kane: Kane], Ko a blossoms] 道成 F. [Dōjōji], 鐘 [Kane: Kane], Ko a blossoms] 道 [F. [Te: Hands] 手 [Te: Hands] 手 [Te: Hands] 手 [Te: Hands]		Gakki [Musical	二味禄 [Shamisen],	二味禄 [Shamisen],	二味禄 [Shamisen],	二味禄 [Shamisen],
大数 [<i>Talko</i>], 由 [<i>Fue</i>] 下座 [<i>Geza:</i> Background music]/ 拍子板 [<i>Hyöshitia:</i>] wooden clappers] - - - - Scene 道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Döjöji] The place on stage 本舞台 (中央) [<i>Hon-butai:</i> Main stage (center)] # 案 [<i>Murasaki:</i> Purple] 本 [<i>Hon-butai:</i> Main stage (center)] * # % [<i>Murasaki:</i> Purple] * Purple] <i>Kodōgu</i> [Small props] - - - - Štage equipments 道成寺 [Döjöji], 鐘 [<i>Kane: Kane</i>];, 桜の木と花 [<i>Sakura no ki to hana:</i> Cherry trees and blossoms] 道成寺 [Döjöji], 鐘 [<i>Kane: Kane</i>];, 桜の木と花 道成寺 [Döjöji], 鐘 [<i>Sakura no ki to hana:</i> Cherry trees and blossoms] 通 blossoms] # [<i>Te:</i> Hands] 手 [<i>Te:</i> Hands]		instruments	小釵 [Kozutsumi],	小蚊 [Kozutsumi],	小奴 [Kozutsumi],	小奴 [Kozutsumi],
下塵 [Geza: Background music]/ 拍子板 [Hyōshiita: wooden clappers] - - - - - - Scene 道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dõjõji] 道成寺 (Pe,) [Hon-buta: Main stage (center)] 本舞台 (中央) [Hon-buta: Main stage (center)] 本舞台 (中央) [Hon-buta: Main stage (center)] 本舞台 (中央) [Hon-buta: Main stage (center)] * Ishō [Costume] 紫 [Murasaki: Purple] Y [Murasaki: Purple] Y [Murasaki: Purple] Y Murasaki: Purple] Y Murasaki: Purple] Purple] Purple] Purple] Purple] Purple] # Murasaki: Kon & & & & & & & & & & & & & & & & & & &			入致 [<i>Iaiko</i>], 田	$\begin{bmatrix} \Delta \mathfrak{Q} & [Iaiko], \blacksquare \end{bmatrix}$	入奴 [$Iaiko$], 田	
The Joead: Background music]/ 拍子板 [Hyōshiita: wooden clappers]Scene道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dōjōji]道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dōjōji]The place on stage本舞台 (中央) [Hon-butai: Main stage (center)]本舞台 (中央) [Hon-butai: Main stage (center)]本舞台 (中央) [Hon-butai: Main stage (center)]本舞台 (中央) [Hon-butai: Main stage (center)]#Ishō [Costume]葉 [Murasaki: [Murasaki: Purple]*Murasaki: [Murasaki: [Murasaki: [Murasaki: [Von A と花 [Sakura no ki to hana: Cherry trees and blossoms]Stage equipments道成寺 [Dōjōji], 鐘 [Kane: Kane]:, 校の木と花 [Sakura no ki to hana: Cherry trees and blossoms]道成寺 [Dōjōji], 鐘 [Kane: Kane]:, 桜の木と花 [Sakura no ki to hana: Cherry trees and blossoms]道成寺 [Te: Hands]f [Te: Hands]Nikutai no Point [The point of the daner's holy]f [Te: Hands]f [Te: Hands]f [Te: Hands]f [Te: Hands]		下应 ICarat				
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Iffyöshita: wooden clappers]道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dōjōji]道成寺の桜の木々 のある庭 [The garden of cherry blossoms of Dōjōji]道成寺o Roso のある庭 [The garden of cherry blossoms of Dōjōji]Jäck = (rep.) (Hon-buta: Main stage (center)]Jäck = (rep.) stage (center)]Jäck = [reJäck = (rep.) (Hon-buta: Main stage (center)]Jäck = [Dōjōji], gä [Kane: Kane]:, K@o A & & %Jäck = [Dōjōji], gä [K		musicl/ 拍子板				
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Dist in the place on stage 本舞台 (中央) [Hon-butai: Main stage (center)] Ishō [Costume] 紫 [Murasaki: Purple] J I I I I I I I I I I I I I I I I I I I		Scene	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々
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The place on stage本舞台 (中央) [Hon-butai: Main stage (center)]本舞台 (中央) [Hon-butai: Main stage (center)]#Ishō [Costume]紫 [Murasaki: Purple]紫 [Murasaki: Purple]紫 [Murasaki: Purple]Y [Murasaki: Purple]WillKodōgu [Small props]Stage equipments道成寺 [Dōjōji], 鐘 [Kane: Kane]:, 校 Ø 木 と 花 [Sakura no ki to hana: Cherry trees and blossoms]道成寺 [Dōjōji], 鐘 [Sakura no ki to hana: Cherry trees and blossoms]道成寺 [Dōjōji], 鐘 [Sakura no ki to hana: Cherry trees and blossoms]道成寺 [Te: Hands]第 [Te: Hands]Nikutai no Point [The point of the dancer's body]爭 [Te: Hands]爭 [Te: Hands]爭 [Te: Hands]爭 [Te: Hands]			garden of cherry	garden of cherry	garden of cherry	garden of cherry
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Stage equipments道成寺 [Dōjōji], 4道成寺 [Dōjōji], 4III </th <th> </th> <th>props]</th> <th></th> <th><u>}</u></th> <th></th> <th>X4-Data and Same</th>		props]		<u>}</u>		X4-Data and Same
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 			蓮 [Kane: Kane]:,	蓮 [Kane: Kane]:,	蓮 [Kane: Kane]:,	童 [Kane: Kane]:,
Image: Image			桜の木と花	桜の木と化	桜の木と化	桜の木と化
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Interview and the point of the dancer's hody! $+ [1e: Hands]$		Mitadata D 1 /	and blossoms]	and biossoms]	and blossoms]	and biossoms]
lancer's hody		Ivikutai no Point	\rightarrow [<i>ie</i> : Hands]	\rightarrow [<i>ie</i> : nands]	\rightarrow [<i>ie</i> : Hands]	→ [<i>ie</i> : Hands]
		dancer's bodyl				

(Continued)

5	6	7	8
1:02:14~1:02:45	1:02:46~1:02:56	1:02:57~1:03:06	1:03:07~1:03:37
白拍子花子	白拍子花子	白拍子花子	白拍子花子
[Shirabyōshi	[Shirabyōshi	[Shirabyōshi	[Shirabyōshi
Hanako]	Hanako]	Hanako]	Hanako]
真奈児の娘の嫉妬	真奈児の娘の嫉妬	真奈児の娘の嫉妬	真奈児の娘の嫉妬
[Manage no	[Manage no	[Manage no musume	[Manage no musume
musume no shitto:	musume no shitto:	no shitto: Jealousy	no shitto: Jealousy
Jealousy of the girl	Jealousy of the girl	of the girl of	of the girl of
01 Manago](N) 生拍 [Vinusuum at	Of Manago](N)	Manago](N) 生拍 [Vinuguma]	Manago](N) 生拍 [Vinusuma)
土坂 [Kimusume. Virgin] (P)	土或 [Kimusume. Virgin] (P)	土衆 [Kimusume. Virgin] (P)	土城 [Kimusume. Virgin] (P)
	深い仲じゃと言い	こちゃこちゃこち	「他てらしほどいと
じゃえ [Sato ni	立てて [Fukai naka	ゃよい首尾で	しらし
koisureba ukivo	iva to iitatete] (N)	[Kocva-kocva-kocva	[Nikutesashi hodo
jyae] (P)		yoi syubi de] (N)	itoshirashi] (N)
P+	Р	P	Р
端唄 [Hauta]	端唄 [Hauta]	端唄 [Hauta]	端唄 [Hauta]
娼婦のエロティシ	娼婦のエロティシ	娼婦のエロティシ	娼婦のエロティシ
スム [Shōhu no	スム [Shōhu no	スム [Shōhu no	スム [Shōhu no
eroticism:	eroticism:	eroticism:	eroticism:
eroticism]	eroticism]	eroticism	eroticism]
croticisiiij	croticisiiij	croticisiiij	croticisiiij
Utaite (8 people)	Utaite (8 people)	Utaite (8 people)	Utaite (8 people)
三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]
(8 people)、太鼓	(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓
[<i>Taiko</i>] (2 people),	[Taiko] (2 people),	[Taiko] (2 people),	[Taiko] (2 people),
笛 [Fue] (2 people)	笛 [Fue] (2 people)	笛 [Fue] (2 people)	笛 [Fue] (2 people)
三味線 [Shamisen],	三味線 [Shamisen],	三味線 [Shamisen],	三味線 [Shamisen],
小鼓 [Kozutsumi],	小鼓 [Kozutsumi],	小鼓 [Kozutsumi],	小鼓 [Kozutsumi],
太鼓 [Taiko], 笛	太皷 [Taiko], 笛	太鼓 [Taiko], 笛	太皷 [Taiko], 笛
[Fue]	[Fue]	[Fue]	[Fue]
- ***************	- 送武士の2001年12	- *********	- 送武士の拟の士人
追放守の桜の木々	追放守の桜の木々	- 追放守の桜の木々 のまえ	追放守の桜の木々 のあっ成 ITh-
のめる庭 [Ine	のめる庭 [Ine	のめる庭 [Ine	のめる庭 [Ine
blossoms of Doioiil	blossoms of Doioiil	blossoms of Doioiil	blossoms of Doioiil
本舞台 (中央)	本舞台 (中央)	本舞台 (中央)	本舞台 (中央)
[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main	[Hon-butai: Main
stage (center)]	stage (center)]	stage (center)]	stage (center)]
紫 [Murasaki:	紫 [Murasaki:	紫 [Murasaki:	紫 [Murasaki:
Purple]	Purple]	Purple]	Purple]
-	-	-	-
道成寺 [Dājāji]	道成寺 [Dājāji]	道成寺 [Dājāji]	道成寺 [Dājāji]
篇 [Kane: Kane]·	鐘 [Kane: Kane]·	鐘 [Kane: Kane]·	鐘 [Kane: Kane]·
桜の木と花	桜の木と花	桜の木と花	桜の木と花
[Sakura no ki to	[Sakura no ki to	[Sakura no ki to	[Sakura no ki to
hana: Cherry trees	hana: Cherry trees	hana: Cherry trees	hana: Cherry trees
and blossoms]	and blossoms]	and blossoms]	and blossoms]
手 [Te: Hands]	手 [Te: Hands]	手 [Te: Hands]	手 [Te: Hands]

which is an essentially dark narrative, being incorporated into *Kyōganoko Musume Dōjōji*, which is a bright story.

For example, the scene of "*Chūkei no Mai*" shown in Table 2 is a \mathbf{P} scene base on "Mind: Girl" (\mathbf{P}). This "girl" means a loving pure girl who has a bright nuance. However, the lyrics from one to eight in this scene represent her \mathbf{N} emotion to the bell, and we defined these scenes as \mathbf{N} . Here, these scenes

Scenes Components 3 4 2 鈴太鼓 The flow of the Around the centerof the main stage, Shirabyoshi Hanako hits suzu-daiko and performs a [Suzudance along with Taue-uta (Saotome odori). [舞台中央で、白拍子花子が鈴太鼓を鳴らし daiko] stage performace ながら、田植唄(早乙女踊)に合わせて踊る。] Time 1:03:41~1:04:05 1:04:16~1:04:32 1:04:33~1:04:45 1:04:46~1:04:56 白拍子花子 白拍子花子 白拍子花子 白拍子花子 Characters [Shirabyōshi [Shirabyōshi [Shirabyōshi [Shirabyōshi Hanako] Hanako] Hanako] Hanako] 娘 [Musume: Girl] 娘 [Musume: Girl] 娘 [Musume: Girl] 心 [Kokoro: Mind] 娘 [Musume: Girl] **(P) (P) (P) (P) (P)** 振り [Furi: 鈴太鼓 [Suzu-鈴太鼓 [Suzu-鈴太鼓 [Suzu-鈴太鼓 [Suzudaiko] (P) 園に色よく咲きそ daiko] (**P**) 紅をさすが品よく 形よく [Beni wo *daiko*](P) 花に心を深見草 <u>daiko]</u>(P) ああ 姿やさしや しおらしや [Aa Action] 歌詞 [Kashi: Lyrics] [Hana ni kokoro wo めて [Sono ni fukamigusa] (P) iroyoku sakisomete] sasuga shina yoku sugata yasashiya **(P)** nari yoku] (**P**) shiorashiya] (P) Scenes of the Р Р Р Р legend of Dojoji 田植唄(早乙女 田植唄(早乙女 田植唄(早乙女 田植唄(早乙女 Music genres and 踊) [Taue-uta 踊)「Taue-uta) [Taue-uta characteristics 踊) [Taue-uta (Saotome-odori)] (Saotome-odori)] (Saotome-odori)] (Saotome-odori)] Katarite Utaite (8 people) Utaite (8 people) Utaite (8 people) Utaite (8 people) [Narrators]/ Utaite [Singers] 三味線 [Shamisen] Ensōsha 三味線 [Shamisen] 三味線 [Shamisen] 三味線 [Shamisen] [Musicians] (8 people), 鈴太鼓 (8 people), 太鼓 (8 people), 太鼓 (8 people), 太鼓 [Suzu-daiko] (1 [Taiko] (2 people), [Taiko] (2 people), [Taiko] (2 people), people) 小鼓 [Kozutsumi] 小鼓 [Kozutsumi] 小鼓 [Kozutsumi] (5 people), 鈴太鼓 (5 people), 鈴太鼓 [Suzu-daiko] (1 (5 people), 鈴太鼓 [Suzu-daiko] (1 [Suzu-daiko] (1 people) 三味線 [Shamisen], people) 三味線 [Shamisen], people) 三味線 [Shamisen], Gakki [Musical 三味線 [Shamisen], 小鼓 [Kotuzumi], 小鼓 [Kotuzumi], 小鼓 [Kotuzumi], instruments] 小鼓 [Kotuzumi], 太鼓 [Taiko], 笛 太鼓 [Taiko], 笛 太鼓 [Taiko], 笛 太鼓 [Taiko], 笛 [Fue], 鈴太鼓 [Fue], 鈴太鼓 [Fue], 鈴太鼓 [Fue], 鈴太鼓 [Suzu-daiko] [Suzu-daiko] [Suzu-daiko] [Suzu-daiko] 下座 [Geza: 拍子板 [Hyōshiita] 拍子板 [Hyōshiita] 拍子板 [Hyōshiita] -Background musicl/ 拍子板 [Hyōshiita: wooden clappers] 道成寺の桜の木々 道成寺の桜の木々 道成寺の桜の木々 道成寺の桜の木々 Scene のある庭 [The のある庭 [The のある庭 [The のある庭 [The garden of cherry garden of cherry garden of cherry garden of cherry blossoms of Dojoji] blossoms of Dojoji] blossoms of Dojoji] blossoms of Dojoji] The place on stage 本舞台 (中央) 本舞台 (中央) 本舞台 (中央) 本舞台 (中央) [Hon-butai: Main [Hon-butai: Main [Hon-butai: Main [Hon-butai: Main stage (Center)] stage (Center)] stage (Center)] stage (Center)] 紫 [Murasaki: 紫色→白 白 [Shiro: White] 白 [Shiro: White] Ishō [Costume] [Murasaki: Purple] Purple→Shiro: White] 鈴太鼓 [Suzu-鈴太鼓 [Suzu-鈴太鼓 [Suzu-鈴太鼓 [Suzu-Kodōgu [Small daiko] 道成寺 [Dōjōji], daiko] 道成寺 [Dōjōji], daiko] daiko] props] 道成寺 [Dōjōji], 道成寺 [Dōjōji], Stage equipments 鐘 [Kane: Kane]:, 鐘 [Kane: Kane]:, 鐘 [Kane: Kane]:, 鐘 [Kane: Kane]:, 桜の木と花 桜の木と花 桜の木と花 桜の木と花 [Sakura no ki to [Sakura no ki to [Sakura no ki to [Sakura no ki to hana: Cherry trees hana: Cherry trees hana: Cherry trees hana: Cherry trees and blossoms] and blossoms] and blossoms] and blossoms] Nikutai no Point 足 [Ashi: Feet] 足 [Ashi: Feet] 足 [Ashi: Feet] 足 [Ashi: Feet] [The point of the dancer's body]

Table 4 Detailed structure of the scene of "Suzu-daiko"

(Continued)

11	12	13	14	15
Gradually Shirabyōsh	Hanako begins to stare	at the bell and just befor	re entering the scene Ka	peiri she approached
the bell. 「段々と鐘を」	見つめるようになり、	鐘入りの場面に入る直	in c 、 鐘に近寄って行	$\overline{T} \leq 1$
1:05:46~1:05:50	1:05:51~1:05:55	1:05:56~1:05:57	1:05:58~1:06:00	1:06:01~1:06:17
白拍子花子	白拍子花子	白拍子花子	白拍子花子	白拍子花子
[Shirabyōshi	[Shirabyōshi	[Shirabyōshi	[Shirabyōshi	[Shirabyōshi
Hanako]	Hanako]	Hanako]	Hanako]	Hanako]
娘 [Musume: Girl]	娘 [Musume: Girl]	娘 [Musume: Girl]	娘 [Musume: Girl]	娘 [Musume: Girl]
(P)	(P)	(P)	(P)	(P)
鈴太鼓 [Suzu-	鈴太鼓 [Suzu-	鈴太鼓 [Suzu-	鈴太鼓 [Suzu-	鈴太鼓 [Suzu-
daiko] (P)	daiko] (P)	daiko] (P)	daiko] (P)	daiko] (P)
化の姿の乱れ髪	思えば思えば恨め	竜頭に手をかけ	飛ぶよと見えしが	引きかづいてぞ失
Hana no	LPEC [Omoeba	[Ry uzu ni te wo	[Tobuyo to	せにける
midaregami] (P)	omoeba urameshiya totel (N)	$kake](\mathbf{N})$	mieshiga] (N)	[Hikikazuuitezo usenikeru] (N)
Р	N+	N+	N+	N+
田植明(見てか	田植明(見て五	田植明(見て五	田植明(見て五	田植明(見て五
田恒頃 (十乙久) \mathbb{H}) [Taue-uta	田旭頃(十乙文 踊) [Taue-uta	田恒頃(十乙文 踊) [Taue-uta	田恒頃 (十乙矣) 踊) [Taue-uta	田恒頃(十乙タ 踊)[Taue-uta
(Saotome-odori)]	(Saotome-odori)]	(Saotome-odori)]	(Saotome-odori)]	(Saotome-odori)]
Utaite (8 people)	Utaite (8 people)	Utaite (8 people)	Utaite (8 people)	Utaite (8 people)
orane (o people)	entite (o people)	entite (o people)	chance (o people)	entre (o people)
三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]	三味線 [Shamisen]
(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓	(8 people), 太鼓
[Taiko] (2 people),	[Taiko] (2 people),	[Taiko] (2 people),	[Taiko] (2 people),	[Taiko] (2 people),
小鼓 [Kozutsumi]	小鼓 [Kozutsumi]	小鼓 [Kozutsumi]	小鼓 [Kozutsumi]	小鼓 [Kozutsumi]
(5 people), 鈴太鼓	(5 people), 鈴太鼓	(5 people), 鈴太鼓	(5 people), 鈴太鼓	(5 people), 鈴太鼓
[Suzu-daiko] (1	[Suzu-daiko] (1	[Suzu-daiko] (1	[Suzu-daiko] (1	[Suzu-daiko] (1
people), 笛 [Fue]	people), 笛 [Fue]	people), 笛 [Fue]	people), 笛 [Fue]	people), 笛 [Fue]
(2 people)	(2 people)	(2 people)	(2 people)	(2 people)
二味禄 [Shamisen],	二味禄 [Shamisen],	二味線 [Shamisen],	二味禄 [Shamisen],	二味線 [Shamisen],
小员 [Koluzumi], 大鼓 [Taiko] 笛	小员 [Koluzumi], 大鼓 [Taika] 笛	小员 [Koluzumi], 大鼓 [Taika] 笛	小頭 [Kotuzumi], 大訪 [Taika] 笛	「小頭 [Koluzumi], 「大鼓 [Taika] 笛
へ致 [<i>Iuiko</i>], 田 [<i>Fue</i>] 鈴大鼓	「Kuel 給大鼓	「Kuel 給大鼓	「Kuel 給大鼓	[<i>Fue</i>] 鈴大鼓
[Suzu-daiko]	[Suzu-daiko]	[Suzu-daiko]	[Suzu-daiko]	[Suzu-daiko]
拍子板 [Hyōshiita]	拍子板 [Hyōshiita]	拍子板 [Hyōshiita]	拍子板 [Hyōshiita]	拍子板 [Hyōshiita]
道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々	道成寺の桜の木々
のめる庭 [The	のめる庭 [The	のめる庭 [The	のめる庭 [The	のめる庭 [The
garden of cherry	garden of cherry	garden of cherry	garden of cherry	blogger of Cherry
biossoms of Dojojij 大無ム (山山)	biossoms of Dojojij 大無ム (山山)	blossoms of Dojojij 大無ム (山山)	biossoms of Dojojij 大無ム (山山)	していていていていていていていていていていていていていています。 大無ム (山山)
平舛口 (中大) [Hon hutai: Main	平如 (中大)	平如 (中大)	平舛口 (中天) [Hon butai: Main	平舛口 (甲六) [Hon butai: Main
stage (Center)]	stage (Center)]	stage (Center)]	stage (Center)]	stage (Center)]
白 [Shiro: White]	白 [Shiro: White]	白 [Shiro: White]	白 [Shiro: White]	白 [Shiro: White]
台 [Surv. winte]	台 [Surv-	台 [Shiro: White]	台 [Surv-	台 [Shire: winte]
daiko]	daiko]	daiko]	daiko]	daiko]
道成寺 [Dōiōii]	道成寺 [Dōiōii]	道成寺 [Dōiōii]	道成寺 [Dōiōii]	道成寺 [Dōiōii]
鐘 [Kane: Kane]:.	鐘 [Kane: Kane]:.	鐘 [Kane: Kane]:,	鐘 [Kane: Kane]:.	鐘 [Kane: Kane]:,
桜の木と花	桜の木と花	桜の木と花	桜の木と花	桜の木と花
[Sakura no ki to	[Sakura no ki to	[Sakura no ki to	[Sakura no ki to	[Sakura no ki to
hana: Cherry trees	hana: Cherry trees	hana: Cherry trees	hana: Cherry trees	hana: Cherry trees
and blossoms]	and blossoms]	and blossoms]	and blossoms]	and blossoms]
足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]	足 [Ashi: Feet]
				1

are associated with N events (scenes) of the legend of $D\bar{o}j\bar{o}ji$, as shown in Table 1. The parts of the mind, lyrics, and actions in Tables 2, 3, and 4 are described.

Next, because the "mind" which is consistently in the scene of "*Teodori* (2)" in Table 3, is "*Manago no musume no shitto*" (Jealousy of the girl of *Manago*), we defined this entire scene as **N**. However, her action is continuously colored by the bright and **P** atmosphere of a virgin girl, and the lyrics are hopeful in the middle of the scene (these are continuously **P**). In contrast, as the lyrics of the last parts

Table 5

Meaning of the components in tables of the stage performance structure of the kabuki dance

Component	Meaning
The flow of the stage performance	The flow of events played on the actual stage.
Time	The time in which the showing of a part of the lyrics is changed to the next.
Characters	People appearing on the stage. Although the central character of <i>Kyōganoko Musume Dōjōji</i> is <i>Shirabyōshi</i> Hanako, many <i>shokes</i> also appear in this stage.
心 [Kokoro: Mind]	The word represents the most essential or symbolic mental state of <i>Shirabyōshi</i> Hanako who is a central character in each dramatic scene.
振り [Furi: Action]	The genres of dances played by Hanako.
歌詞 [Kashi: Lyrics]	The lyrics sung or narrated, written by Fujimoto Tobun.
The scene of the legend of Dōjōji	It indicates whether the associated scene of the legend of Dojoji is a negative scene or positive scene.
Music genres and characteristics	The genre or features of the music played in each scene.
Katarite [Narrators]/Utaite [Singers]	Narrators or singers of the lyrics and their numbers.
Ensōsha [Musicians]	The musical players on the stage according to the types of instruments and their numbers.
Gakki [Musical instruments]	The types of instruments played on the stage.
下座 [<i>Geza</i> : Background music]/拍子板 [<i>Hyōshiita</i> : Wooden clappers]	<i>Geza</i> is a room that is hidden from the audiences on the left side (as observed from the audience seats) of the stage and the players in the geza mainly play sound effects. On the other hand, $Hy\bar{o}shiita$ is instruction for a player on the right side of the stage, accompanied by dramatic development.
Scene	The background of the stage.
Place on stage	Each narrative place where one or more dramatic characters exist.
Ishō [Costume]	The costume that Shirabyōshi Hanako wears.
Kodōgu [Small props]	Small props that Shirabyōshi Hanako has.
Stage equipment	Backgrounds and objects on the stage.
Nikutai no point [The point of the dancer's body]	In each scene, the part of Hanako's body that is mostly focused on.

(Sections 5 and 6) show her jealousy, these parts are defined as N. Hence, "*Taodori* (2)," which is bright, is associated with N episodes of the legend of Dōjōji in the final part.



Fig. 1. Relationship between the legend of Dojoji and Kyoganoko Musume Dojoji.

Finally, "*Suzu-daiko*" of Table 4, in which the "mind" is "girl," is entirely positioned as a **P** scene and the action and lyrics also have a **P** atmosphere in the middle of the scene. However, the lyrics from scenes 12 to 15 changed to an **N** atmosphere. This last part is associated with the **N** scene in the legend of $D\bar{o}j\bar{o}ji$.

The above description shows that the episodes of the legend of $D\bar{o}j\bar{o}ji$ are fragmentally reflected in *Kyōganoko Musume Dōjōji*. Figure 2 shows a conceptual image of the relationship between the legend of $D\bar{o}j\bar{o}ji$ and *Kyōganoko Musume Dōjōji*.



Fig. 2. Image of the legend of Dojoji that is fragmentally reflected in Kyoganoko Musume Dojoji.

3. PROTOTYPING SYSTEM

In this section, we propose a prototype system based on the survey and analysis of both the legend of $D\bar{o}j\bar{o}ji$ and $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and the analysis of their mutual relationships. It associates our simple 2D representation system for the stage performance structure of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ with the same simple 3D representation system based on the legend of $D\bar{o}j\bar{o}ji$. In the proposed association system, the simulation system based on $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and the narrative system according to the legend of $D\bar{o}j\bar{o}ji$ are combined to elucidate the relationships between the two narratives and grant users the enjoyment of the story of $D\bar{o}j\bar{o}ji$ as a Japanese traditional narrative. In the following subsections, we show the system configuration, macroalgorithm including two processes, and the 2D representation system.

3.1. System configuration

The internal structure of the system is illustrated in Fig. 3. As the flow of the system, based on the stage structure code given to $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ by the user, the stage is reproduced by referring to the image knowledge base for 2D animation. As stated in Section 3.3, the code is a list of commands, such as moving the character and changing the background inside the system. During the 2D animation system performs, different types of systems select a 3D model from the knowledge base according to the corresponding relationship between $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and the legend of $D\bar{o}j\bar{o}ji$ analyzed in the previous sections, generate a scene of the legend of $D\bar{o}j\bar{o}ji$, and insert it into the stage reproduction of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$. Each scene of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ is associated with a scene in the legend of $D\bar{o}j\bar{o}ji$ using the correspondence method of both narratives based on the method described in the following section. As we can observe from this description, in the system, the output video is divided into two types: one frame represents the scene of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ using 2D animation and the other of the legend of $D\bar{o}j\bar{o}ji$ using 3D animation. When representing, the system uses the knowledge associated with the specific

scenes of the legend of Dōjōji with the "lyrics (*kashi*)" of *Kyōganoko Musume Dōjōji* and the "mind (*kokoro*)" and "action or movement (*furi*)" expressed in each scene, as mentioned in the previous sections.



Fig. 3. System architecture.

From the users' perspective, this system is used by, for instance, people who are interested in *kabuki* but do not know the stories of *kabuki* in detail. Users can see the computer simulation of *Kyōganoko Musume Dōjōji*, which is bright in general and appreciates the story's development. Simultaneously, users can also see that the original episodes of the legend of Dōjōji fragmentally appear similar to in a flashback and get explanations according to "mind," "lyrics," and "action" of the heroine as keys. In particular, the role of this proposed system is to change the user's narrative experience to a more complex one and allow multiple experiences through the story of the legend of Dōjōji, which is hidden in *Kyōganoko Musume Dōjōji* (Fig. 4).



Fig. 4. System image from a user's perspective.

3.2. Macro algorithm: Two processes

This system comprises two main processes. This processes terminates when all 11 scenes included in the input are processed.

- (1) 2D representation system: The system receives a code showing the stage structure of Kyōganoko Musume Dōjōji from the user and generates a 2D image of the stage reproduction of Kyōganoko Musume Dōjōji based on the input code. In particular, the system separates the code based on each scene of Kyōganoko Musume Dōjōji written in the code and executes the following processing for each scene. When the reproduction of the scenes included in the input is generated, reproduction is stopped, and the result and input code are given to the next mechanism. The 3D representation system is based on the 2D representation system and the legend of Dōjōji. The 2D representation system has already been developed, and an overall explanation is provided in Section 3.3.
- (2) 3D representation system and the mechanism associated with the 2D representation: The system receives the input code and the video generated in 2D and inserts the scene of the legend of Dojoji into the stage reproduced video of *Kyoganoko Musume Dojoji* based on the corresponding knowledge base, the legend of Dojoji. After processing, the stage reproduction of Musume Dojoji, whose story is complemented, is returned to the user. Section 3.4 provides a detailed description.
- 3.3. 2D representation system of the stage performance structure of *Kyōganoko Musume Dōjōji* using KOSERUBE

The 2D representation system uses part of the functions of the system called KOSERUBE. Figure 5 presents an overview of the KOSERUBE architecture. KOSERUBE comprises two parts: a narrative generation module and a user interface. Each part is implemented using Common Lisp and HSP and connected via input and output files.



Fig. 5. KOSERUBE architecture (used Fig. 1 in Kawai, Ono, and Ogata (2020a)).

KOSERUBE uses the narrative generation mechanism developed in this study. Narrative generation in our system architecture of narrative generation is executed as a structural operation in the story, discourse, and expression. Each process is performed by four main functional components: conceptual dictionaries, story techniques, discourse techniques, and control modules. Conceptual dictionaries provide semantic definitions of the components of an event, which is a fundamental element of the narrative. Story techniques are used to build a story structure. Discourse techniques are generative rules that transform parts of a story structure. The control modules manage the entire generation process. The conceptual dictionaries and mechanisms above comprise integrated narrative generation. A detailed description was provided by Ogata (2018; 2019a; 2020c). Additionally, KOSERUBE

mainly uses the above dictionaries and mechanisms. The difference is the story technique and music mechanism. The central technique for the story-generation phase is Propp-based story grammar Ogata (2007). Although it adopts an original method, the music mechanism is fundamentally based on the music mechanism in an integrated narrative generation system.

The system proposed in this study uses images based on knowledge for each scene and expresses the stage by combining the images of $Ky\bar{o}ganoko~Musume~D\bar{o}j\bar{o}ji$. KOSERUBE is a folktale-style story automatic generation system. The user selects a folktale story or character, automatically generates it based on the selected element in the system, and returns the generated animation to the user based on the generated story. KOSERUBE was used in the simulation system for the stage reproduction of $Ky\bar{o}ganoko~Musume~D\bar{o}j\bar{o}ji$. Reproduction refers to the background, people, and music. The music was handwritten in some scenes using a free composition tool based on the score Kineie (2018). There are scenes in which there is no score; hence, existing music is used. We also reproduced a simple dance. Because the purpose of this system is to see the entire stage structure, it is a simple expression of dance. The marked part (Fig. 5) is modified to reproduce the stage performance structure with people, background (stage equipment), music (instrument and performer), verse, and dance.

As stated in Section 2.2, this study was based on a detailed analysis table of "stage performance structure." As shown in Tables 2, 3, and 4, as its main components, they contain the characters, backgrounds (stage devices), music (instruments, performers, and genres), verses and lines, and the principal conceptual theme of each scene. In KOSERUBE, the words of the dance were entered into the text data and displayed, whereas the background and person were displayed as images. At the back, Nagauta singers and instrumentalists lined up in the same manner as they would on the actual stage. The person singing and performing in each scene is indicated by an arrow, and a spotlight is applied to yield a visually recognizable expression. In addition, the movement of Shirabyōshi Hanako's dance was expressed.

In the command file, the chapters on the dance to be displayed, reproduction timing of the music, switching of the background image enclosed with the picture database, etc., are described. Animation control is described later. In the proposed 2D representation system, the command uses limited elements of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ described in Tables 2, 3, and 4 as examples to generate the animation in each scene. This is a list of 11 scenes in the story of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and instructions that show the contents that express each scene. Figure 6 shows a part of *Chūkei no Mai* in Table 2, which generates a simple animation with a song "Kane ni urami ha kazukazu gozaru" [I hold a lot of grudges against the bell] based on the code. Table 6 lists the commands in the code shown in Fig. 6. The parts in [] represent the components used.

In KOSERUBE, the actual movement is simply expressed according to the code. In Fig. 7, the command "mov" is used. "mov, 11, v, -50, -25" represents move, character ID, vertical, movement distance, and speed, respectively, from the left. In the first line, the Shirabyōshi Hanako was moved vertically by a distance of 50 and a speed of 25. (The Shirabyōshi Hanako moved up from the current coordinates. Positive values move Shirabyōshi Hanako downward.) Overall, this implies bouncing Shirabyōshi Hanako three times. The right side depicts a screenshot of *Chūkei no Mai*'s dance (corresponding to Table 2). This illustrates the actual movement of the stage. On the actual stage, the actor moves his hand up and down on the spot. The objective of this research is not to pursue realistic human movements and express them but to visually reproduce the stage performance structure. Therefore, the dance was simplified in KOSERBE.

```
ch_BG,butai1.1,;,++++ [Monks], [musical players], [a bell], and [chery trees] are displays.
dsc,中啓の舞 (Chūkei no Mai)
pos,11,400,400;;,++++ [Shirabyōshi Hanako] appears the center of the main stage.
mus,1,中啓の舞.mp3,;,++++ The music starts.
;,++++ No.1 [Shirabyōshi Hanako] walks to the direction of the audiences and returns to the central position. dsc,鐘に恨みは数々ござる (Kane ni urami ha kazukazu gozaru)
mov,11,v,50,25,1
go action,/////////
pos,11,400,400
reset
;,++++ No.2 For representing her dance, [Shirabyoshi Hanako] moves up and down three times.
spot, 1, 0, 400, -210, ;, ++++ All musical players are spotlighted.
spot,1,2,200,-210
dsc,初夜の鐘を撞く時は (Shoya no kane wo tsuku toki ha)
mov,11,v,-50,-25,1
go_action,/////////
mov,11,v,50,25,1
go_action,/////////
mov,11,v,-50,-25,1
go_action,////////
mov,11,v,50,25,1
go_action,////////
mov,11,v,-50,-25,1
go_action,////////
mov,11,v,50,25,1
go action,/////////
reset
;,++++ No.3
dsc,諸行無常と響くなり (Shogyō mujō to hibiku nari)
reset
;,++++ No.4
dsc,後夜の鐘を撞く時は (Goya no kane wo tsuku toki ha)
reset
;,++++ No.5 [Shirabyōshi Hanako] moves to the right side of the main state and returns to the central position. dsc,是生滅法と響くなり (Zeshō meppou to hibiku nari)
mov,11,v,-50,-25,1
go action,/////////
mov,11,v,50,25,1
go action,/////////
reset
;,++++ No.6
dsc, 晨朝の響きは生滅々己 (Jinnjō no hibiki ha shōmetsu metsui)
reset
;,++++ No.7 For representing her dance, [Shirabyōshi Hanako] moves up and down three times. dsc,入相は寂滅為楽と響くなり (Iriai ha jakumetsu iraku to hibiku nari)
mov,11,v,-50,-25,1
go action,/////////
mov,11,v,50,25,1
go_action,////////
mov,11,v,-50,-25,1
go action,/////////
mov,11,v,50,25,1
go action,////////
mov,11,v,-60,-25,1
go action,/////////
mov.11.v.60.25.1
reset
;;++++ No.8 For representing her dance, [Shirabyōshi Hanako] moves up and down three times.
dsc,聞いて驚く人もなし (Kiite odoroku hito mo nashi)
mov,11,v,-50,-25,1
go_action,/////////
mov,11,v,50,25,1
go_action,////////
reset
;,++++ No.9 [Shirabyōshi Hanako] gradually moves to the right side of the main stege to approach a [bell].
mov,11,v,-50,-25,1
go action,////////
mov,11,v,50,25,1
```

Fig. 6. Part of the code entered.

go action,///////
dsc.われも五障の雲晴れて (Ware mo goshō no kumo harete)
mov,11,h,400,15,-1
go_action,///////
pos,11,400,400
mov,11,v,-50,-25,1
go_action,///////
mov,11,v,50,25,1
go_action,///////
mov,11,v,-50,-25,1
go_action,///////
mov,11,v,50,25,1
go_action,///////
reset
;,++++ No.10 [<i>Shirabyōshi</i> Hanako] gradually moves to the right side of the main stege to approach a [bell].
dsc,真如の月を眺め明かさん (Shinnyo no tsuki wo nagame akasan)
mov,11,h,400,15,1
go_action,///////
mov,11,h,800,15,-1
go_action,///////
mov,11,h,250,15,1
go_action,///////
mov,11,h,150,15,-1
go_action,///////
mov,15,v,50,25,1
go_action,///////
reset
mus.0,中啓の舞.mp3,;,++++ The music play ends.

Fig. 6. (Continued.)

Command Name	Description Form	Meaning
ch_BG	ch_BG, FileName	Changes the background image on the main stage to the image defined by "FileName."
Dcs	dsc, Text	Displays the character string designated by "Text" on the display.
Pos	pos, ID, X, Y	Displays the image by "ID" in the coordinate of "X" (width) and "Y" (height).
Mus	mus, 1 or 0, FileName	Plays ("1") or stops ("0") the musical file designated by "FileName."
Mov	mov, ID, v or h, move, speed	The image of "ID," executes the lateral movement ("h") and vertical movement ("v") according to the values of "speed."
go_action	go_action, ////////	Executes the movement of the image designated by the "move" command.
Reset	Reset	Returns the position of an image to the first state.
Spot	spot, lightID, X, Y	Displays the light by "lightID" in the position of "X" and "Y."

Table 6 Commands used in the code for 2D animation

Additionally, KOSERUBE was expanded to include auditory elements, which were added from a musical score titled *Music and Sound in Kabuki*. Haikawa (2016) explains *debayashi* (*Nagauta*) and sound effects in *Kabuki*. This system used a music sequencer called "text music Sakura" (https://sakuramml.com/, last accessed on July 9, 2020). This tool can be used to compose and edit music by simply typing notes (C, D, E, etc.) in text form. In KOSERUBE, the auditory element is accompanied by an animation. Additionally, we created music using a free composer called "Wagakuhitosuji" by referring to the score in *Shamisen Bunkafu Nagauta Kyōganoko Musume Dōjōji* by Kineie (2018). Unlike several composer tools, "Wagakuhitosuji" corresponds to the scale of Japanese music, rather than Western music, and allows composition on shamisen notation.



Fig. 7. Example of a screenshot of the dance of "Chūkei no Mai".

3.4. Associating between Kyōganoko Musume Dōjōji and the legend of Dōjōji using 3D representation system

We have developed an experimental system that complements the 2D representation system of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ using the 3D representation system of the legend of $D\bar{o}j\bar{o}ji$ (Kawai, Ono & Ogata, 2021a), representing the fragmented images of the legend of $D\bar{o}j\bar{o}ji$, which does not appear directly in $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$. We also considered various application systems for generating explanations as well as for education. Although the system can insert the animation of the legend of $D\bar{o}j\bar{o}ji$ into the animation of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$, our consideration of their association or correspondence was still insufficient. This study corresponds to the development of research on these associations. Additionally, the system proposed in this study is not only a complementation system but also a prototype toward more advanced goals, including more academic investigation and education systems of cultural heritage. Through the development of the survey and analysis of the association, we will view the possibilities of various systems beyond the complement system of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$.

3.4.1. 3D representation system of the legend of Dōjōji

The system inserts the scene using the 3D representation system of the legend of $D\bar{o}j\bar{o}ji$ shown in Table 1 into the given code and the stage reproduction of $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$ using a 2D animation system based on the knowledge base corresponding to its legend. For all 11 scenes that are reproduced on the stage, the results are returned to the user after scene insertion is completed.

An overview of the 3D representation system was prepared by changing the combination of images from KOSERUBE to a combination of 3D models. In particular, the input information into the 3D representation system is the list of modes to be used and the commands for the positioning and movement of the models. The system reads the list of models, interprets each command according to a sequential order, and outputs the results as a 3D animation. The commands listed in Table 7 are prepared.

The 3D model used was the one used in the "Miku Miku Dance" developed by Yu Higuchi (release date: February 24, 2008). Because this video is also intended to express the structure of the legendary scene of Dōjōji, the detailed movements are not reproduced, and they are symbolically expressed by combining 3D models. The final output video is explained in the next section.

3.4.2. Associating method between Kyōganoko Musume Dōjōji and the legend of Dōjōji

The way the two stories come and go is expressed using two images, a 2D and a 3D one, with the mind change being key. The correspondence relationships that trigger the return are based on the

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Table	7
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Commands and the definitions

Command Name	Definition
Move	Described execution time, object, and the number of changes in x , y , and z for moving the object according to the values.
Setang	Describes execution time, object, and the number of changes in x , y , and z for turning the object according to the values.
Pose	Stops the object according to the inputted time.
Fire	Describes execution time, object, and switch for firing red light from the object's mouth.
Sitdown	Describes the execution time and object for changing the object to a different model.
Setpos	Describes execution time, object, and the coordinates of x , y , and z for moving the object to the designated position.
End	Finishes the animation.

method described in the following section. Specifically, we state the method of the association between *Kyōganoko Musume Dōjōji* and the legend of Dōjōji.

As mentioned in Tables 2, 3, and 4 for $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$, the key terms for associating it with the events in the legend of $D\bar{o}j\bar{o}ji$ shown in Table 1 are the "mind" and "action" of *Shirabyōshi* Hanako and lyrics. This time, the action includes Hanako's facial expressions and gestures. The "mind" takes the values of **P** or **N** as the entire level and the value of "mind" in each scene is the same. Meanwhile, the "lyrics" and "action" action' take the value **P** or **N** in each scene. In this study, we aim to emphasize and represent a scene that has a value different from the value of "mind" for emphasizing their contrast. In the "lyrics" and "action," we aim to focus on the contrasting parts from the "mind." However, when the values of "mind," "lyrics," and "action" in a scene are the same, one or more events of the legend of $D\bar{o}j\bar{o}ji$ having the same value are selected.

From this description, the cases in which "mind" is P and N, and four types of combinations are produced. If "mind" is P [mind/P]:

- mind/P, lyrics/N, action/N (2)
- mind/P, lyrics/N, action/P (1)
- mind/P, lyrics/P, action/N (1)
- mind/**P**, lyrics/**P**, action/**P** (0)

However, if "mind" is N [mind/N]:

- mind/N, lyrics/P, action/P (2)
- mind/N, lyrics/P, action/N (1)
- mind/N, lyrics/N, action/P (1)
- mind/N, lyrics/N, action/N (0)

Additionally, numbers from 0 to 2 are required in the following description.

The association with the scenes of the legend of $D\bar{o}j\bar{o}ji$ is based on the above numbers (points). First, in the case of mind/**P**, the following association is conducted based on the following points:

- 2-point: The N+ scene of the legend of Dojoji.
- 1-point: The N scene of the legend of Dojoji.
- 0-point: The \mathbf{P} + or \mathbf{P} scene of the legend of $D\bar{o}j\bar{o}ji$.

However, for mind/N, the association is as follows:

- 2-point: The **P**+ scene of the legend of Dōjōji.
- 1-point: The P scene of the legend of Dojoji.
- 0-point: The N+ or N scene of the legend of $D\bar{o}j\bar{o}ji$.

In this description, the N+ scene of $D\bar{o}j\bar{o}ji$ is the scene that was evaluated as the most negative in the legend of $D\bar{o}j\bar{o}ji$, and N means the second negative scene. The P+ scene is the scene that was evaluated as the most positive scene, followed by the P scene.

In this study, we associate $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ with the legend of $D\bar{o}j\bar{o}ji$. This method can be implemented in a system that contains the mechanism for moving to the legend of $D\bar{o}j\bar{o}ji$ from the simulation system of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$. A tentative idea of system implementation based on the above description is shown in Fig. 8: points of the events in the legend of $D\bar{o}j\bar{o}ji$ associated when the "mind" is consistently $1(\mathbf{P})$ or $-1(\mathbf{N})$ in "*Chūkei no Mai*," "*Teodori* (2)," and "*Suzu-daiko*." In many cases, contrasting events and scenes are mutually associated.



Fig. 8. Associative patterns between the scenes of Kyōganoko Musume Dōjōji and the events of the legend of Dōjōji.

First, the timing of representing a scene of the legend of $D\bar{o}j\bar{o}ji$ in the representation system of *Kyōganoko Musume Dōjōji* is determined by the user (experimentally, the system can execute the transition at any time without any user inputs). In cases of mind/**P** and mind/**N**, common processing was conducted. A corresponding scene is freely selected and displayed without managing, for example, the amount of display based on this point.

4. IMPLEMENTATION AND EXPERIMENTS

Based on the algorithm described in Section 3.4, we implemented a prototype system using Common Lisp, which associates the 2D representation system of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and the 3D representation system of the legend of D $\bar{o}j\bar{o}ji$. When the user pushes the * key on the 2D system, the following algorithm is executed to represent 3D animation (while the 3D representation is executed, the 2D system stops):

- (1) The system acquires the values of the **P/N** of mind, action, and lyrics from Tables 2, 3, and 4.
- (2) The system calculates the point based on the value of P/N.
- (3) The system refers to the 3D animation according to the calculation results in the order of the knowledge base. In addition, animations that were referred to once were not used.
- (4) The system represents the selected 3D animation.

Table 8 shows events of the legend of Dōjōji using the values of "positive (P)" and "negative (N)."

 $Table \; 8 \\ Event \; list \; of \; the \; legend \; of \; D\bar{o}j\bar{o}ji \; by \; the \; values \; of \; P \; and \; N$

Values	Events in the legend of Dōjōji
P +	Kiyohime, who lives in a private house, falls in love with Anchin at first sight. /That night, a reincarnated Anchin and Kiyohime appear in the old monk's dreams. /Anchin and Kiyohime thank the old monk.
Р	Anchin, a young monk, and an old monk head to Kumano on a pilgrimage. /Anchin and the old monk stay in a private house. /Anchin and the old monk leave Kumano. /The old monk and the monks of Dōjōji temple continue to chant the Lotus Sutra at Dōjōji temple. /Anchin and Kiyohime disappear from the dream.
Ν	Anchin lies to Kiyohime about visiting Kiyohime's house. /Anchin and the old monk make a detour and return to their temple. /Kiyohime notices that Anchin lied. /Kiyohime is confined to her room. /Kiyohime cries. /Kiyohime crosses the Kirime River. /Kiyohime chases Anchin. /Kiyohime sits on a rock in Ueno. /Anchin and the old monk hear from a passerby that a snake is chasing them. /Anchin and the old monk run away. /Anchin and the old monk flee to Dōjōji temple. /The monks of Dōjōji temple hide Anchin in the bell of Dōjōji. /The snake arrives at Dōjōji temple. /The snake leaves. /The monks of Dōjōji temple look inside the bell. /That night, a high-ranking old monk has a dream. /In that dream, Anchin and Kiyohime appear as snakes. /Anchin and Kiyohime ask the old monk for salvation.
N+	Kiyohime's body turns into a snake. /Kiyohime spits fire. /Kiyohime's body turns into a snake. /The snake spits fire on the bell. /The snake wraps around the bell where Anchin is hiding. /The monks of Dōjōji Temple find Anchin's charred corpse.

Table 9 shows the scenes of $Ky\bar{o}ganoko$ Musume $D\bar{o}j\bar{o}ji$ and the scenes of the legend of $D\bar{o}j\bar{o}ji$ that are associated with the experimental execution of the proposed system. (The underlined events of the legend of $D\bar{o}j\bar{o}ji$ correspond to Figs 9, 10, and 11).

Scenes of Kyōganoko Musume Dōjōji	Mind	Lyrics	Action	Events of the legend of Dōjōji
Chūkei no Mai	Girl (P)	Kane ni urami ha kazukazu gozaru (N)	Shirabyōshi (P)	Kiyohime crosses the Kirime River. (N)
Chūkei no Mai	Girl (P)	Shoya no kane wo tsuku toki ha (N)	Shirabyōshi (P)	Kiyohime notices that Anchin lied. (N)
Chūkei no Mai	Girl (P)	Shogyō-mujyō to hizbiku nari (N)	Shirabyōshi (P)	The monks of Dōjōji Temple look inside the bell. (N)
Chūkei no Mai	Girl (P)	Goya no kane wo tsuku toki ha (N)	Shirabyōshi (P)	Anchin and the old monk flee to Dōjōji Temple. (N)
Chūkei no Mai	Girl (P)	Zesyō-meppō to hibiku nari (N)	Shirabyōshi (P)	Kiyohime is confined to her room. (N)
Chūkei no Mai	Girl (P)	Jinjyō no hibiki ha shōmetsu-metsui (N)	Shirabyōshi (P)	Kiyohime spits fire. (N+) (Fig. 9)
Chūkei no Mai	Girl (P)	Iriai ha jakumetsu-iraku to hibiku nari (N)	Shirabyōshi (P)	Anchin and the old monk make a detour and return to their temple. (N +)
Chūkei no Mai	Girl (P)	Kiite odoroku hito mo nashi (N)	Shirabyōshi (P)	The monks of Dōjōji Temple find Anchin's charred corpse. (N +)
Chūkei no Mai	Girl (P)	Ware mo gosyō no kumo harete (P)	Shirabyōshi (P)	That night, a reincarnated Anchin and Kiyohime appear in the old monk's dreams. (P +)

 Table 9

 Correspondence between Kyōganoko Musume Dōjōji and the legend of Dōjōji

		(Continued)								
Scenes of Kyōganoko Musume Dōjōji	Mind	Lyrics	Action	Events of the legend of Dōjōji						
Chūkei no Mai	Girl (P)	Shin'nyo no tsuki wo nagame akasan (P)	Shirabyōshi (P)	Anchin, a young monk, and an old monk head to Kumano on a pilgrimage. (P)						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Tada tanome (P)	Virgin (P)	That night, a reincarnated Anchin and Kiyohime appear in the old monk's dreams. $(\mathbf{P}+)$						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Ujigami-sama ga kawaigarashansu (P)	Virgin (P)	Kiyohime, who lives in the private house, falls in love with Anchin at first sight. (P+) (Fig. 10)						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Izumo no kamisama to yakusoku areba (P)	Virgin (P)	Anchin and Kiyohime thank the old monk. (P +)						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Tsui nii-makura (P)	Virgin (P)	Kiyohime, who lives in the private house, falls in love with Anchin at first sight. $(\mathbf{P}+)$						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Sato ni koisureba ukiyo jyae (P)	Virgin (P)	Anchin and Kiyohime thank the old monk. $(\mathbf{P}+)$						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Fukai naka jya to iitatete (N)	Virgin (P)	Anchin and the old monk leave Kumano. (P)						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Kocya-kocya-kocya yoi syubi de (N)	Virgin (P)	Anchin and Kiyohime disappear from the dream. (P)						
Teodori (2)	Jealousy of the girl of <i>Manago</i> (N)	Nikutesashi hodo itoshirashi (N)	Virgin (P)	The old monk and the monks of Dōjōji Temple continue to chant the Lotus Sutra at Dojoji Temple. (P)						
Suzu-daiko	Girl (P)	Hana ni kokoro wo fukamigusa (P)	Suzu-daiko (P)	The old monk and the monks of Dōjōji Temple continue to chant the Lotus Sutra at Dojoji Temple. (P)						
Suzu-daiko	Girl (P)	Sono ni iroyoku sakisomete (P)	Suzu-daiko (P)	Anchin, a young monk, and an old monk head to Kumano on a pilgrimage. (P)						
Suzu-daiko	Girl (P)	Beni wo sasuga shina yoku nari yoku (P)	Suzu-daiko (P)	Anchin, a young monk, and an old monk head to Kumano on a pilgrimage. (P)						
Suzu-daiko	Girl (P)	Aa sugata yasashiya shiorashiya (P)	Suzu-daiko (P)	Anchin and the old monk stay in a private house. (\mathbf{P})						
Suzu-daiko	Girl (P)	Sassa soujaina (P)	Suzu-daiko (P)	Kiyohime, who lives in the private house, falls in love with Anchin at first sight. $(\mathbf{P}+)$						
Suzu-daiko	Girl (P)	Sassa soujaina (P)	Suzu-daiko (P)	Anchin and the old monk stay in a private house. (P)						
Suzu-daiko	Girl (P)	Satsuki samidare (P)	Suzu-daiko (P)	That night, a reincarnated Anchin and Kiyohime appear in the old monk's dreams. $(\mathbf{P}+)$						
Suzu-daiko	Girl (P)	Saotome saotome taueuta (P)	Suzu-daiko (P)	Anchin and Kiyohime thank the old monk. (P +)						

Table 9
Continued)

(contract)							
Scenes of Kyōganoko Musume Dōjōji	Mind	Lyrics	Action	Events of the legend of Dōjōji			
Suzu-daiko	Girl (P)	Saotome saotome taueuta (P)	Suzu-daiko (P)	The old monk and the monks of Dōjōji Temple continue to chant the Lotus Sutra at Dojoji Temple. (P)			
Suzu-daiko	Girl (P)	Suso ya tamoto wo nurashita sassa (P)	Suzu-daiko (P)	Anchin, a young monk, and an old monk head to Kumano on a pilgrimage. (P)			
Suzu-daiko	Girl (P)	Hana no midaregami (P)	Suzu-daiko (P)	Anchin and the old monk leave Kumano. (P)			
Suzu-daiko	Girl (P)	Omoeba omoeba urameshiya tote (N)	Suzu-daiko (P)	The monks of Dōjōji Temple hide Anchin in the bell of Dōjōji. (N) (Fig. 11)			
Suzu-daiko	Girl (P)	Ryūzu ni te wo kake (N)	Suzu-daiko (P)	The snake arrives at Dōjōji Temple. (N)			
Suzu-daiko	Girl (P)	Tobuyo to mieshiga (N)	Suzu-daiko (P)	Anchin and the old monk flee to Dōjōji Temple. (N)			
Suzu-daiko	Girl (P)	Hikikazuuitezo usenikeru (N)	Suzu-daiko (P)	That night, a high-ranking old monk has a dream. (N)			

Table 9 (Continued)

As examples of representation, Figs 9, 10, and 11 show a scene of the legend of Dōjōji that corresponds to a scene on the stage of *Kyōganoko Musume Dōjōji*.

In Fig. 9, the left shows a scene "Jinjō no hibiki ha shōmetsu metsui" (**N**) (the "lyrics") in "Chūkei no Mai" Chukei no Mai" of Kyōganoko Musume Dōjōji. The "mind" is "girl" (**P**) and the "action" is "Shirabyōshi" (**N**). The right associated part of the legend of Dōjōji is the event of "Kiyohime spits fire" (**N**+). Next, the left scene of Fig. 10 is a scene of



Fig. 9. Part of output video (1).

"Teodori (2)" of Kyōganoko Musume Dōjōji. The "lyrics" is "Ujigami-sama ga kawaigarashansu" (**P**), the "mind" is "virgin" (**P**), and the "action" is "Jealousy of the girl of Manago" (**N**). On the other hand, the right image shows the event of "Kiyohime, who lives in the private house, falls in love with Anchin at first sight" (**P**+) of the legend of Dōjōji. Finally, in Fig. 11, the left scene is the image of the "lyrics" "Omoeba urameshiya tote" (**N**), the "mind" is "girl" (**P**), and the "action" is "Suzu-daiko" (**P**). The right part shows the event of "The monks of Dōjōji Temple hide Anchin in the bell of Dōjōji" (**N**) of the legend of Dōjōji.



Fig. 10. Part of output video (2).



Fig. 11. Part of output video (3).

5. PROBLEMS AND FUTURE WORKS

There are five main problems to be addressed. We would like to examine these five points and connect them to promote further development of the system.

- (1) In this study, we made Tables 2, 3, and 4 based only on the three scenes of "Chukei no Mai," "Teodori (2)," and "Suzu-daiko" of Kyōganoko Musume Dōjōji to associate them with scenes of the legend of Dōjōji. In the future, we would like to make the tables of all the scenes of Kyōganoko Musume Dōjōji for the association with scenes of the legend of Dōjōji. Simultaneously, we will create 3D animations of all the scenes in the legend of Dōjōji. Moreover, we aim to improve the quality of animation using computer graphics (CG) technologies.
- (2) The proposed prototype system does not consider the user interface, the role of an application system, etc. In the future, we aim to consider profitability as an application system from the user's perspective to develop application systems based on the proposed system.
- (3) Although Kawai, Ono, and Ogata (2020c) have developed a complementary system that adds various levels of explanations regarding *Kyōganoko Musume Dōjōji*, the objective is to combine the proposed mechanism with the system described in this study. Additionally, for the complementary system, we presented the idea of a mechanism that can adjust the amount of explanation and its contents according to the user's interests and concerns. We would like to introduce these ideas in future extensions of the proposed system.
- (4) We consider how to use Kiyohime's duality. Hanako, who appears in *Kyōganoko Musume Dōjōji*, has both negative and positive personalities related to love and sex, and her mind changes from scene to scene, presenting two appearances.

(5) We would like to develop an approach from a psychoanalytic perspective. As mentioned in Section 2.3, we extracted the concepts of nouns and verbs from the concept dictionary we developed Ogata (2015) and classified her two personalities. Hanako's two-sided personality were mainly classified with dark scenes, represented by a glaring bell being negative, whereas beautiful and bright scenes being positive. These two personality changes are expressed by changing the overall color tone when expressing an image. For example, a negative scene is expressed by changing the color tone to bluish. We also believe that using duality, we can generate a story with the theme of extraordinary love.

Next, we discuss the final consideration. Recently, there has been a deep connection among CG, robots, and Japanese culture, such as kabuki. For example, a stage using Hatsune Miku and CG is performed. "Hatsune Miku" is a vocal sound source compatible with the voice synthesis system "Vocaloid." One can make her sing by entering the melody and lyrics. Specifically, in 2019, Hatsune Miku and Nakamura Shido costarred in "Hanakurabe Senbonzakura" (https://chokabuki.jp/ minamiza/) at Minamiza (Kyoto). Figure 12 shows a scene of this performance. In this image, Nakamura Shido himself professed to encourage diffusion at the time of the stage performance. CG was often used on the stage, and it was to good effect owing to the production of cherry blossoms. In 2020, Hatsune Miku's ningyō jōruri Koimusume Tsumugi Labyrinth (https://www.sap-co.jp/events/ bunraku-beyond-2021-2/) was held at the Tomioka Silk Mill. Using the desktop robot "Premade AI," the members of Tokyo University of Technology reproduced the ningyō jōruri Hidakagawa Iriaizakura remotely using the Zoom app. Hidakagawa Iriai-zakura is a version of the legendary ningyō *jōruri* of the Dōjōji temple. Here, Kiyohime, the character in the story, is played by a robot, and the shamisen and narrator are performed by humans (Dong, Chen, Cai, Nakagawa, Higaki & Asai, 2020). The robot was preprogrammed and could automatically dance and speak lines. Hence, Japanese culture such as kabuki and ningyō jōruri can be expanded by CG and robots.



Fig. 12. Scene from Hanakurabe Senbonzakura (photographed by Takashi Ogata: August 1, 2019).

Therefore, in the future, we would like to express a wider story by incorporating CGs and robots. This research explores a method that alternates between the scene of $Ky\bar{o}ganoko\ Musume\ D\bar{o}j\bar{o}ji$ and the legend of $D\bar{o}j\bar{o}ji$. The goal is to combine the generation of stories with CG and seamless expressions using robots. Based on the branching of the scenes, we consider a method in which many story scenes are generated in parallel using the story unit of the legend of $D\bar{o}j\bar{o}ji$.

As mentioned in Section 1, storytelling robots can be a new form of narrative expression. For example, we propose a *kamishibai* (paper-play) robot. A *kamishibai* is a method of storytelling in which the narrator tells a story using pieces of paper with pictures representing the content of each scene. The narrator uses various gestures to draw the listener into the story. The storytelling by a *kamishibai* robot opens new possibilities. We also believe that the *kamishibai* robot can be applied to care and nursing care (e.g., Médecins Sans Frontières used the *Kamishibai* for AIDS prevention Campaign Enjelvin (2018)).

Additionally, Carillon Theatrical Society (https://www.ctsbathurst.com.au/) conducted musical theater productions and other performances, including animation.

6. CONCLUSION

We have investigated kabuki in the context of narrative generation based on information technologies, including artificial intelligence and cognitive science, as well as literary studies, such as narratology and literary theories. Moreover, kabuki dance work, Kyōganoko Musume Dōjōji, is pivotal to our narrative generation study of kabuki. Although we developed a novel 2D representation system that simulates the stage performance structure of Kyōganoko Musume Dōjōji based on its survey and analysis, this system was only a starting point for expanding the narrative generation study of kabuki and application systems using kabuki materials. As stated in **INTRODUCTION**, this study, aiming at diverse forms of narrative generation robots, develops a system that reflects the problems of love and sex through a cultural approach toward *kabuki* and related narrative works. In particular, we focused on the legend of Dojoji as the background of Kyoganoko Musume Dojoji and surveyed and analyzed both narratives and their relationships in detail. We concentrated on the positive and negative characteristics of the heroines common to these narratives, called Kiyohime or Shirabyōshi Hanako, to mutually associate these two narratives. These correspond to the contents of the first half of this study. The second half of this study describes the structure, design, implementation, and simulation results of a prototype system based on the above survey and analysis. This system aims to superimpose multiple stories utilizing Kyōganoko Musume Dōjōji, the heroine's mind and action, and the lyrics sung or narrated on the stage.

In the future, by adding and extending the current deficient knowledge and CG animation, we will expand this prototype system to a completed system and explore various usages of the proposed mechanism and related surveys and analyses as application systems. Furthermore, we believe that it will become necessary for robots to tell stories for human entertainment, nursing, and long-term care. Therefore, we propose not only CG but also robots and to use the works of *kabuki* and *Jōruri* rather than *Kyōganoko Musume Dōjōji*.

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