



Conference Report

このコーナーでは IFTOMM の国際会議に参加した学生や会員にその報告をしていただきます。



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I4SDG2025

● 開催都市はどんなところでしょうか



The host city, Villa San Giovanni in Calabria, is a small but beautiful coastal town in southern Italy. It was my first time seeing such a clean and clear sea—the beach was stunning, and swimming there was a wonderful

experience. We also visited a museum and enjoyed the delicious local food. I felt that each Italian city has its own charm, and Villa San Giovanni impressed me with its peaceful atmosphere and scenic views.

The conference was held in a historic castle, and it was fascinating to see the ruins and feel the unique atmosphere of such a cultural site. The blend of academic discussions and historical surroundings made the experience even more memorable.

● 会議会場の雰囲気はいかがでしたか

The main conference venue consisted of three rooms within a historical castle, which gave the event a very unique and atmospheric setting. Around 180 participants attended the conference, coming from a wide range of countries including Japan, China, several European nations, Mexico, and more. International diversity created a vibrant and stimulating environment for academic exchange.

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● 袴田さん、Feng さん、Micah さんはどんな発表をしたのでしょうか

Ryosuke Hakamata:

I gave a presentation on clarifying the chaos-related problems in the equilibrium analysis of strings and proposed an effective approach to address them. This will lead to contribution to SDGs by improving technology that utilizes the deformation of flexible elements, such as strings.

FENG:

I presented my research on the conceptual design of a novel hybrid robot that integrates cable-suspended mechanisms with a fully-actuated hexarotor system, aiming to achieve large-scale, flexible motion with improved force control compared to the traditional cable-driven parallel robots.

Micah Alampay:

I presented my research on the effect of single-sided robotic leg support on the stand-to-sit motion of individuals with asymmetric leg strength. The assistive robot is intended to help people with impairments such as hemiplegia in standing up and sitting down.

● 興味深い発表はありましたか

Prof. Giuseppe Quaglia, the original founder of the I4SDGs conference, gave a very insightful presentation on how Mechanism & Machine Science can help in SDGs in many different ways. He gave an example of one mechanism they developed to help in the construction of houses in Tanzania. There, they built a mechanism that could greatly improve the efficiency and quality of clay bricks used for building houses. The machine had several key design parameters, such as the need to be powered by human strength, and the need to apply a strong amount of force to compress the clay tightly into bricks. The mechanism they developed helped in building houses, schools, and hospitals in the area it was deployed in. It was very inspiring to see how even just one thoughtfully designed mechanism can have a significant, concrete impact on a community.

Another interesting presentation was on the 1934 World Speed Record of the Aeronautica Macchi M.C. 72, presented by Antonella Castellano. It was an insightful look into the history of how they developed the engine for the vehicle to beat the world speed record. It was particularly insightful to see how they continually developed the design, even after some major setbacks, and how they were able to achieve the world record. It was also nice to see that a lot of effort was put into the preservation of the mechanism and its history, and that they maintained it as a historical landmark in

mechanical engineering. It was a good reminder of the significance of past research, and how the efforts of scientists and engineers in the past helped push the field forward to where we are now.

● ディナーやソーシャルイベントはどうでしたか

The dining and social events throughout the conference were truly exceptional. From the breakfast buffet to the multi-course lunches and dinners, every meal showcased



the richness and diversity of Italian cuisine. Even during coffee breaks between sessions, attendees were treated to fresh juices, light snacks, and authentic Italian espresso, which

added to the overall experience. What made the dining experience even more special was the stunning setting – meals were often enjoyed beside a beautiful pool or with panoramic sea views, creating a truly relaxing and scenic atmosphere.

Several social events were held, including seated banquet dinners and informal coffee breaks that provided excellent networking opportunities. Among them, the most



unforgettable was the wine tasting event. It was held in the atmospheric cellar of the castle, where we sampled rare and prestigious Italian wines, each with its own unique history and origin. The combination of the historic venue, carefully selected wines, and lively conversations made it an incredibly

memorable experience.

● 最後に、参加した感想を聞かせてください

Ryosuke Hakamata:

I gained valuable experience by participating in I4SDG. Compared to other large-scale international conferences, I4SDG has a relatively small number of participants, which allows for closer interactions among attendees. I found this to be one of the most attractive aspects of this conference, as it facilitated meaningful communication not only during presentations but also in informal settings. Beyond the academic sessions, I enjoyed many opportunities for cultural and personal exchange—such as dining and dancing with other

attendees, and a guided tour of a local museum on the final day. These experiences helped me connect with attendees from different fields and countries, broadening my perspectives.

I was also honored to receive the Best Student Paper Award. This recognition not only acknowledged my efforts but also brought more attention to my study from participants.



Micah Alampay:

Participating in this conference helped broaden my knowledge of the cutting-edge research being done in the field, as well as obtain new perspectives for how robotics and mechanisms can be used to solve practical problems in our society. It also gave me a valuable opportunity to present my research to other international academics and get feedback on the work I have been doing. It was also a great chance to meet and network with other academics in the field and learn about the work being done in mechanical engineering around the world.

FENG:

For me, participating in the I4SDG2025 conference was an incredibly enriching experience. I not only learned about the latest trends and innovations in robotics and sustainability but also had the opportunity to share my own work, receive feedback, expand my professional network, and gain new international research opportunities. I am confident that the insights and relationships I developed during this off-campus study will significantly benefit my academic growth and future career.