SS1: Ensuring Safety and Security for Cybernetic Avatars: Addressing E3LSI Challenges

Organizer

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Description

To address the challenges posed by a declining birthrate, an aging population, and the resulting labor shortage, it is crucial to create a society that transcends the constraints of physicality, cognition, space, and time. This means enabling individuals with diverse backgrounds and values—including the elderly and those responsible for nursing and childcare—to actively engage in society. In the Moonshot R&D Programs led by Japan Science and Technology Agency (JST), we are currently conducting research and development to achieve a society liberated from constraints related to people's bodies, brains, space, and time by 2050 (Moonshot Program 1). This effort involves the development of "cybernetic avatars," which are avatars that exist both physically (as robots) and virtually, capable of performing various tasks on behalf of individuals. In this process, we are identifying Ethical, Economic, Environmental, Legal, and Social Issues (E3LSI) and developing proposals to resolve technical and institutional issues at both domestic and international levels.

In this session, we will begin by introducing some of the current work conducted by members and collaborators of the Moonshot R&D Program 1, focusing on research from the E3LSI perspective. Each of the 5 participants will have 12 minutes to present. Following these presentations, there will be a 30-minute discussion among the panelists to explore the E3LSI issues further. The remaining 30 minutes will be dedicated to an open floor session, allowing participants to share their experiences and network with potential collaborators on these issues. The total duration of the session will be 2 hours.