Special Issue

Recent Development and Applications of Remote Robot Systems

Message from the Guest Editor

In remote robot systems, users can remotely operate robots having various kinds of sensors such as visual, auditory, force, and olfactory sensors. This special issue focuses on recent development and applications of remote robot systems. By using the systems, we can largely enhance abilities of robots and humans because we can conduct various types of work which only humans cannot do or only robots cannot do. However, when sensed information is transmitted over a network like the Internet, the quality and stability may seriously degraded owing to network delay, delay jitter, and packet loss. Especially, by using multiple systems, the problems may become complicated; for example, change from bilateral control to multilateral control may lead to instability phenomena. To realize stable and high-quality control in the remote robot systems, we need to solve a variety of problems by using QoS (Quality of Service) control, stabilization control, AI technologies, and so on. This special issue invites submissions on, but not limited to, the above research areas.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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