

Recommendation

ITU-T Y.4504 (08/2024)

SERIES Y: Global information infrastructure, Internet protocol aspects, next-generation networks, Internet of Things and smart cities

Internet of things and smart cities and communities –
Frameworks, architectures and protocols

Service framework of prediction for intelligent Internet of things

ITU-T Y-SERIES RECOMMENDATIONS

Global information infrastructure, Internet protocol aspects, next-generation networks, Internet of Things and smart cities

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Recommendation ITU-T Y.4504

Service framework of prediction for intelligent Internet of things

Summary

Recommendation ITU-T Y.4504 describes the service framework in terms of prediction for intelligent Internet of things (IoT) services by reflecting the development of artificial intelligence (AI) technology and the requirements from the market. To do this, this Recommendation introduces the concept of service framework of prediction for intelligent IoT and the requirements. This Recommendation describes a functional architecture of service framework of prediction for intelligent IoT.

As the AI technology develops and begins to be applied to various fields, enhanced IoT services using AI technology are being developed. Machine learning, the core of the AI technology, has been mostly researched in the direction of increasing the accuracy of inference. To apply the AI technology to real fields and to provide intelligent IoT services, the AI services must be operated at a level that can be provided to customers effectively. It is needed to study the technologies to efficiently provide AI services by focusing on inference (prediction) rather than training (learning).

History*

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Inference, intelligent IoT, Internet of things, prediction, service framework.

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