

Integrate Japanese Red List into LOD of Species

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For saving biodiversity, sharing knowledge of species plays a key role via supporting policy making and local action. Red list is a catalogue of endangered species, that is, organisms on the risk of extinction in the world, countries, prefectures or so. Thankfully, Biodiversity Center of Japan, which is a part of Ministry of the Environment, provides Red List information of Japan and host information retrieval system on their website already. However, it is not easy to integrate that information with other resources.

On the other hand, we have already constructed the data hub for biodiversity with Linked Open Data (LODAC species), core of which is a vast amount of taxonomic information of species.

In this work, we defined RDF vocabulary for red list and added information of the Japanese Red List provided by Biodiversity Center of Japan to that data hub. Exploiting links in the data and query interface called SPARQL, we implemented information retrieval system on it also. This enables you to get detailed information on each endangered species.