Research data sharing and frameworks

Dr. Yasuhiro Murayama

National Institute of Information and Communications Technology

Open research data, which is the agreed idea in the G8 science minister meeting in UK 2013, is one of focuses of wide-spread arguments in conducting and promoting future scientific research and innovation in the international society. Data sharing is considered to be also a substantial element of science, so we may even be able to aim at the mutual trust between science and society with it. Subjects of international arguments of concept, strategy, implementation and operation of open data sharing include long term preservation, open and citable accessibility and persistent identifier, global interoperability, certification of trusted repositories, distributed arrangement of service nodes, and so on. Those are all challenging items. From the infrastructure point of view we can recognize changes of scientific research and communication systems will be drastic. Formerly the system for scholarly research records, preservation and publication has been constructed based on the printed culture. On the other hand we find a big trend to incorporate electronic digital data management system based on computer, software, and Internet technologies which is becoming a new intellectual infrastructure of people almost all over the world. However the system with the electronic way is still "infant" and has a lot of issues to be clarified and to be developed. The talk will target describing such ideas and examples of the international/national landscapes.