

## **eBook + LA => BookRoll**

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The LEAF system is a Learning and Evidence Analytics infrastructure that supports the collection, analysis, and utilization of learning logs (educational data). LEAF system consists of a Learning Management System (LMS), an eBook reader (BookRoll), Learning Record Store (LRS), and a Learning Analytics tool (Log Palette). BookRoll works as a ebook behavior sensor and records student log data. Log Palette analyzes and visualizes the log data obtained from BookRoll and LMS. The log data can be further used for interactive lectures, reflection, recommendations, and class improvement. LEAF system has been used in over 120 educational institutions, from elementary to higher education, within eight countries and regions. Our goal is to scientifically analyze those data, provide smart learning environments for teachers and students, and transform from “education and learning based on their experiences” into “education based on data and evidence.” This talk will introduce: (1) research for supporting data-and-evidence informed education, (2) practices of data-informed education with LEAF in K12 schools and universities, and (3) policies for educational data utilization in Japan.

Hiroaki Ogata is a full professor at the Academic Center for Computing and Media Studies, Kyoto University in Japan, director of the evidence-driven education research council, and an associate member of Science Council of Japan. His research includes Computer Supported Ubiquitous and Mobile Learning, CSCL, CALL, and Learning Analytics. He has published over 600 peer-reviewed papers including SSCI Journals and international conferences. He has received several Best Paper Awards, and gave keynote lectures.