

Division of Electrical, Information and Communication Engineering	Research field	Interactive Intelligent Systems Laboratory	Lab. ID EI31
Laboratory web site	https://researchmap.jp/hajime-ikeda		
Research subjects			
<p>Our laboratory focuses on Interactive Intelligent Systems, integrating Artificial Intelligence (AI), sensing technologies, and data science to address real-world challenges in resource development and disaster prevention. With a strong emphasis on “AI for real-world applications”.</p> <p>Our research combines machine learning and deep learning with sensor development and field experiments, enabling end-to-end system design from data acquisition to decision-making.</p>			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
<p>Master course: Students decide their practical subject for the Master thesis after consultation with staffs and belong to one of the research groups. They attend group meetings regularly held once a week and report progress of their own research projects. They are also expected to take several classes each week in the first grade.</p> <p>Doctor course: Doctor students work on their own research projects. They attend group meetings regularly held once a week. They are expected not only to report progress of their own research projects but also to discuss extensive research topics with the other members.</p>			
Daily life in the laboratory, etc.			
<p>Hands-on experience in sensing, experiments, and field observations</p> <p>Access to GPU servers and computational resources</p> <p>Opportunities to work with real-world data through collaborations with industry and research institutes</p>			
Message or comments by the laboratory faculty staffs			
<p>Our laboratory conducts research at the intersection of AI, sensing, XR, and data science, targeting socially important applications such as resource development and disaster prevention. We value not only theoretical research but also practical systems that can be deployed in real-world environments. Through collaborations with industry and research institutions, students can engage in research closely connected to real applications. Our goal is to cultivate individuals who can design and implement AI systems to solve societal challenges, rather than simply using AI as a tool. We welcome students who are motivated to explore new fields and engage in practical, impactful research.</p>			
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