北陸先端科学技術大学院大学研究室教育指針
Laboratory Education Guideline

研究室教育指針は、学則第３０条の３に基づき、研究指導の方法及び内容並びに修了までの研究指導の計画をあらかじめ明示するものです。
Based on the Article 30-3 of the general academic rules, the Laboratory Education Guideline is intended to clearly outline the methods and content of research guidance, as well as the plan for research guidance until completion.

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1. 研究テーマ / Research Theme

Research Area:
Multimodal Interaction, Multi-sensory Intelligence, Machine Learning, Data Mining, Pattern Recognition

Keywords:
Multi-sensory Intelligence, Social Signal Processing. Multimodal Interaction. Human behavior analysis.　Affective computing

2. 修得が期待される能力 / Competencies expected to be acquired
研究室教育は必修 A 科目（先端）又は研究支援科目（融合）の一部として単位化されており、この欄はそれら科目のシラバス上の達成目標の一部となります。
Laboratory Education is accredited as a part of the Required courses A (Division of Advanced Science and Technology) or Research Support Courses (Division of Transdisciplinary Sciences), and this section constitutes a part of the course goals stated in the syllabus for such subjects.

Our research is conducted from the standpoint of realizing social AI that understands human behavior, inner states, and communication, and enables natural interaction with humans, based on machine learning, data mining, and signal processing. Often, research begins with problem definition and data collection. For example, identifying which aspects of communication to capture to discover new applications, and determining which sensors to use to collect that data. Consequently, students can acquire the full range of skills essential for data scientists: formulating problem statements, collecting data, performing signal processing, machine learning, and data mining, and analyzing and visualizing outputs. Machine learning-based artificial intelligence systems have diverse applications, and the problems addressed in society are becoming increasingly broad and complex. Our goal is to equip students with the methodology to apply AI technology to these complex problems and solve them.

3. 研究指導方針 / Research Guiding Principle

This laboratory was established in 2017. While studying the foundational disciplines of machine learning, data mining, and pattern recognition, we simultaneously advance our studies and research by clearly connecting them to the latest achievements in the laboratory's target research fields. This approach enables us to understand the global research landscape while challenging ourselves to conduct research at that level.

4. 研究室活動の内容及び方法 / Content and Methods of Laboratory Activities

□日次活動 / Daily Activities：
□週次活動 / Weekly Activities： seminars (1 times per week) in English and Japanese, seminar for Tokyo satellite students.
□月次活動 / Monthly Activities：
□不定期活動 / Occasional Activities： Individual meetings (Upon request from students), ethics training, government-academia-industry collaboration research, internships [especially before submitting research proposals]

5. 年間スケジュール / Annual Schedule

本学の全学共通の年間スケジュールは「履修案内」の「学位取得に至るスケジュール」を参照してください。（本学HP 参照：ホーム＞教育＞履修関係＞履修案内）

Please refer to the “Degree conferment schedule for the master’s program/doctoral program” in the “Degree Completion Guide” for university-wide common schedule (JAIST website: Home >Education>Taking Courses>Degree Completion Guide)

- Laboratory Orientation for New Students (April, October)
- Submitting papers and Participation in the well-known International Conferences (Recommended for M students; D students are required)
- Participation in domestic conference (JSAI, and related symposiums) (At least one academic presentation required before completion)