

Intelligence Science

廖士中

1 Introduction

Course Name: Intelligence Science

Course Code: B216G003

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Intelligence Science is an interdisciplinary concerning with brain science, cognition science, computing science and artificial intelligence, and aims to explore intelligence with brand-new conception, theories, methodologies, technologies and chances.

Intelligence Science is a degree course for PhD. Candidate. The course provides a vision of the state of arts of intelligence science, and bridges cutting-edge knowledge in brain science, cognition science, computing science, and artificial intelligence to foster technological prototype and theoretical originality for computational approach.

The class is organized as follow.

Each student will select a topic, and email the syllabus to the instructor. Then the student should deliver a report which is based on the remediation of the syllabus by the instructor.

Selected reports may be asked to present in an organized seminar.

2 Main Topics

- Foundation of Brain Science
- Sense-Motor System
- Emotion and Mind
- Cognitive Computation
- Emotional Computation
- Philosophy of Artificial Intelligence
- Popular Topics
- Open Problems