**Computational Intelligence for Industry**

Xiaoou Li\*, Junliang Wang

Code: 2hsqj

**Abstract**

Computational intelligence (CI) can perform jobs human-likely by learning from human experience. In recent years, there are many successful applications of CI technologies, for example, using deep learning to train computers to accomplish specific complicated tasks like Alpha Go. CI technologies such as machine learning, reasoning, computer vision, speech recognition and autonomous operations would have significant impacts on industries. They may make the industrial operations much more efficient, improve resource (including human and material resources) utility and energy efficiency, and even help economic, environmental, and social sustainability.

The goal of this special session is to establish a novel computational intelligence community, which connects to the industrial processes directly. We will offer innovative and efficient computational intelligence solutions for industrial processes and demonstrate the practicality and relevance of the methods from a theoretical understanding as well as technological development. This session will build up a connection between the industry and the computational intelligence researchers, so that computing intelligence experts could perceive industrial circumstance, and the industry get benefit from computing intelligence technologies.