

Research on a Platform System to Resolve the Difficulty of Sharing Individualized Skills and Knowledge

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Abstract:

Various types of craftsmanship professions exist in society. These occupations require skills that cannot be mastered merely by reading manuals or reference materials. As a result, the transmission of such skills is extremely difficult, and those who pursue these paths must spend many years to acquire them. For example, in Japan, miyadaiku—traditional temple carpenters—must learn by observing their masters and practicing repeatedly over a long period before becoming fully independent. It is said that it takes about ten years for a miyadaiku to perform all tasks alone. Even if one begins training in their twenties, they are not recognized as a professional until reaching their thirties.

Jobs that rely on individualized or tacit skills involve high temporal and psychological costs for successors. Traditional crafts and performing arts are symbolic examples. This study investigates the importance of sharing tacit skills and knowledge through information science. It proposes a structural framework for sharing these human-dependent techniques, aiming to shorten the training period required for skill acquisition and to reduce the teaching burden on mentors.