

Case Studies of AI Applications in DOHWA Engineering

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Recent advances in Generative Artificial Intelligence (Generative AI) have rapidly driven innovation across various industries. In the construction industry, the use of AI has emerged as a new paradigm for improving the productivity and quality of engineering design. Geotechnical engineering design involves a variety of interconnected tasks, including the review of design standards, investigation of technical references, preparation of technical reports and presentation materials, production of engineering illustrations, and repetitive calculations and programming. Many of these tasks can be effectively supported by Generative AI. This presentation introduces practical examples and application methods of various AI tools tailored to the characteristics of geotechnical engineering tasks, based on actual design practice.