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[ADVANCED](#)[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

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## STRUCTURAL ENGINEERING / EARTHQUAKE ENGINEERING

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[\[Image PDF \(1841K\)\]](#) [\[References\]](#)**ON QUANTIFICATION OF USER COSTS OF BRIDGES IN  
HOKKAIDO AND THEIR APPLICATIONS**Hiroyuki SUGIMOTO<sup>1)</sup>, Satoshi SUDO<sup>2)</sup>, Akira GOTO<sup>3)</sup>, Tadatomo WATANABE<sup>4)</sup>  
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In this paper, the effect of the user cost (UC) on the life cycle cost (LCC) of bridges in Hokkaido will be clarified by numeric conversion. The idea of reducing LCC will be incorporated to create an efficient bridge management system (BMS). UC is, however, only listed as an item when considering LCC, and there has not been sufficient research on the actual degree of its effect. UC is presumed to account for a high percentage in the LCC. UC is also regarded as an index to represent the evaluation of a detour network around the subject bridge. An attempt was made to quantify the UC, and the degree of its effect was examined using an example of the BMS strategy, as well as a calculation example of the LCC related to aseismic design of RC bridges.

**Key Words:** user cost, bridge management system, life-cycle cost, maintenance system, Hokkaido

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