



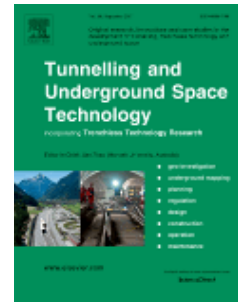
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY

incorporating Trenchless Technology Research

AUTHOR INFORMATION PACK

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DESCRIPTION

Tunnelling and Underground Space Technology incorporating Trenchless Technology Research is an international journal which publishes authoritative articles encompassing original research and case studies on the development of tunnelling technology, the use of underground space and trenchless technology. The journal is committed to publishing papers on the interdisciplinary aspects of planning, creating, and regulating underground space, and covers a very wide scope of underground space and underground construction, including:

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All papers on the topics within the journal scope are welcomed. Papers can be in the form of original research papers or case study papers on underground space utilization and underground construction technology.

AUDIENCE

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Strunk Jr, W., White, E.B., 1979. *The Elements of Style*, third ed. Macmillan, New York.

Reference to a chapter in an edited book:

Mettam, G.R., Adams, L.B., 1999. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281-304.

[dataset]:

Oguro, M., Imahiro, S., Saito, S., Nakashizuka, T., 2015. Mortality data for Japanese oak wilt disease and surrounding forest compositions. Mendeley Data, v1. <http://dx.doi.org/10.17632/xwj98nb39r.1>. Back to the contents list

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