

Title	大学におけるロードマッピングを支援するためのデータ分析法に関する研究
Author(s)	閻, 潔
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Description	Supervisor:中森 義輝, 知識科学研究科, 博士

## **Abstract**

This dissertation is a report on data analysis methods for supporting Road Mapping Approach (RMA) in academia. Recently Road Mapping sees its application as a strategic planning tool for research and as a methodology for knowledge management and supporting knowledge creation in academia. This study first focused on relation among scientific research of technology creation in academia, technology development in industry and policy making in government to make clear applications of RMA in academia for research of technology creation, in industry for technology development and in government for policy making, then we addressed ontology and triple helix analysis for supporting Road Mapping Approach (RMA) to help researchers (in scientific research fields such as materials science, physics science and chemistry science) find new interests, new research topics by answering three questions: where are you, where do you want to go and how to get there, and also promote cooperation on technology development among industry, government and academia. After doing a case-study (support RMA in a specific research field of fuel-cells technology development) for making sure what kinds of support researchers need and how to support them for RMA in a specific research field based on a framework designed, a computer-based support system was proposed on this study.

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## **Keywords**

Road Mapping Approach (RMA), scientific research, triple helix of academia-industry-government, ontology extraction, network, similarity measure and support system