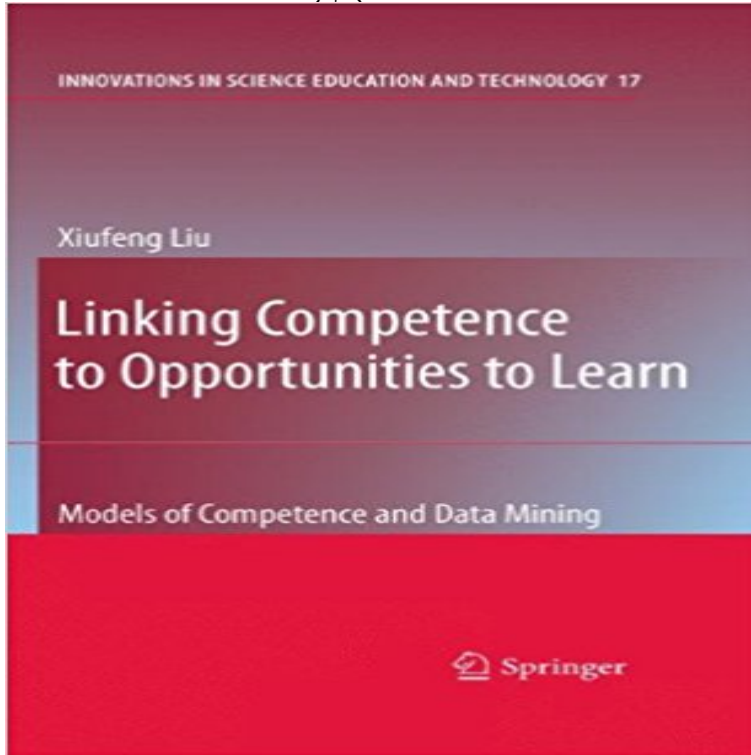


# Linking Competence to Opportunities to Learn: Models of Competence and Data Mining (Innovations in Science Education and Technology)



For many people, a high standard for student learning is desirable. This is what underlies current standard-based science education reforms around the world. As someone who was born and brought up in a less-privileged home and educated in a resource-limited school environment in a developing country, I always had to study hard to meet various standards from elementary to high school to university. My first book in English published over 10 years ago (Liu, X. [1996]. *Mathematics and Science Curriculum Change in the Peoples Republic of China*. Lewiston, NY: The Edwin Mellen Press) provided me an opportunity to examine standards (i. e. , Chinese national science teaching syllabi) from a historical and political point of view. I argued that standards are developed for particular political agendas in order to maintain the privileged position of certain groups (i. e. , urban residents) in a society at expenses of others (i. e. , rural residents). Thus, underneath standards is systematic discrimination and injustice. Since then, I have had opportunities to study the issue of standards in much more breadth and depth. This book, *Linking Competence to Opportunities to Learn: Models of Competence and Data Mining*, provides me an opportunity to examine standards from a different perspective: opportunity to learn.

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