

东北师范大学申请授予博士学位审批表

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学院(部、所)	信息科学与技术学院	入学年月	2016. 09	
一级学科名称	教育学	二级学科名称	教育技术学	
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入学前获最高学历、学位的名称、院校、专业及时间	于 2012 年 6 月毕业于 Namangan Engineering-Education Institute (学校) Professional Education Informatics and Information Technology 专业, 获教育学硕士学位。			
学位论文相关情况				
论 文 题 目	Research on Adaptive content delivering in learning management systems: focusing on user preferences and knowledge level			
论文关键词	online education; learning styles; learning management systems; adaptive learning; student model			
论文选题来源	Combined source of supervisor advices, personal expertise and demand on the area according to literature	论文字数	21055	
在学期间公开发表论文及著作情况 (为保证页面整齐便于存档, 请不要改变行数。如字数较多, 可用小号字体)				
序 号	文 章 (著 作) 名 称			
	刊物 (出版社) 名称	刊发时间	级别 (SCI、CSSCI (需标注 A 或 B)、核心刊物等)	署名次序
1	Adaptive educational hypermedia systems: an overview of current trend of adaptive content representation and sequencing			
	ISJ Theoretical & Applied Science	2019	Google Scholar	1
2	A Web based instrument to initiate learning style: an interactive questionnaire instrument, International			
	Journal of Emerging Technologies in Learning	2018	ESCI, EI, Scopus	1
3	Adaptive user generated content based on integration of learning preference and knowledge level			
	Computer Applications in Engineering Education	2020	SCI (E)	1
4	An adaptive activity sequencing instrument to enhance e-learning: an integrated application of overlay user model and mathematical programming on the Web			
	2019 International Conference on Computer and Information Sciences (ICCCIS)	2019	IE, Scopus	1
5	Enhancing adaptiveness for e-learning system by integrating with a Web- based instrument to detect learning style			
	11th International Conference on Ubi-Media Computing and workshops	2018		1
在学期间公开发表论文 <u>5</u> 篇, 其中 <u>4</u> 篇为第一作者。 发表 SCI (CSSCI) 论文 <u>1</u> 篇, 其中 <u>1</u> 篇为第一作者; 出版专著 <u>0</u> 部。				
论文通讯评阅情况				
共发出 3 份评阅材料, 返回评阅书 <u>3</u> 份, <u>3</u> 人同意答辩。 评分情况: 专家一评分: <u>90</u> 分, 专家二评分: <u>76</u> 分, 专家三评分: <u>75</u> 分。				

本人根据《中华人民共和国学位条例》、《中华人民共和国学位条例暂行实施办法》及我校有关规定，提出授予学位申请，并保证以上所填内容属实。

申请人签字:  2020年06月04日

指导教师意见

本人作为该生指导教师，保证以上所填内容属实，同意其提出授予学位申请。

签字:  2020年06月04日

学位论文答辩委员会组成情况及评语

职务	姓名	从事专业	工作单位	职称	是否博导
主席	刘美凤	教育技术学	北京师范大学	教授	是
委员	马捷	信息管理	吉林大学	教授	是
委员	杨兆山	教育学原理	东北师范大学	教授	是
委员	王以宁	教育技术学	东北师范大学	教授	是
委员	张海	教育技术学	东北师范大学	教授	是
委员					
委员					
委员					
委员					

答辩委员会对学位论文的评语

This thesis explored the adaptive learning content delivery in learning management system based on learners' preferences and knowledge level. In this thesis, the author developed an automatic recognition tool of learner's learning style with the method of interactive learner trait recognition based on the Web. Crowdsourcing- a development of user-generated-micro-lecture model was also suggested in this thesis. Naive Bayes algorithm and k-NN algorithm were used to evaluate the cognitive level of students. The above methods and techniques were applied to the teaching practice of a course, and an empirical study was conducted to verify the effectiveness of the adaptive learning content delivery mechanism and methods in the learning management system. Experiments show that adaptive learning content delivery based on learners' preferences and knowledge level had a positive impact on learners' behavior and performance. This study plays an important role in improving the learning experience and performance of learners' adaptive learning in the network environment, and provides a reference for the improvement of adaptive learning content recommendation mechanism.

Here are the innovation aspects of this study:

Firstly, an interactive learner trait identifying instrument was developed. Compared with the traditional self-report method, this learning style diagnosis technology uses the implicit user feature recognition method to get the information of learning styles of learners in a more friendly way, which will reduce the errors caused by the subjective reasons from the research objects.

Secondly, a user-generated, micro-lesson project was developed as an alternative for crowdsourcing. On the project, students created their learning objects in the subject: Introduction to the algorithm. The application of the project improves the participation of learners in the course learning, and the generated courses will be more close to the learning style and knowledge level of learners, which will help to improve learning experience and learning effect.

Thirdly, the development of learning management system based on learners' learning preferences and knowledge level was completed, and the effectiveness of the system in improving learners' academic performance and behavior was tested. The research and the thesis shows that the author has a solid theoretical foundation and practical ability of educational technology, as well as the ability to engage in scientific research independently.

The thesis is of clear research ideas, scientific methods, detailed data, sufficient argumentation, clear expression and

	<p>correct conclusions. The author presented his research work clearly and answered the questions correctly. After the discussion, the defense committee unanimously agreed to pass the thesis defense. It is recommended to award the author PhD in Education.</p> <p>主席签字: 刘美凤</p> <p style="text-align: right;">2020年 06 月 04 日</p>
<p>授予博士学位审批意见</p>	
<p>答辩委员会</p>	<p>答辩委员会由 5 人组成, 经无记名投票, 有 5 人同意建议授予博士学位。同意票数超过总人数的 2/3, 建议授予博士学位。</p> <p>主席签字: 刘美凤</p> <p style="text-align: right;">2020年 06 月 04 日</p>
<p>学位分委员会</p>	<p>学位评定分委员会由 人组成, 出席本次会议 人, 其中同意建议授予博士学位委员 人, 不少于到会委员人数的 2/3, 且超过全体委员人数的 1/2, 建议授予博士学位。</p> <p>主席签字: 年 月 日</p>
<p>校学位委员会</p>	<p>学位评定委员会根据《中华人民共和国学位条例》、《中华人民共和国学位条例暂行实施办法》进行审查, 并以无记名投票方式进行表决。学位评定委员会委员 人, 出席本次会议委员 人, 投票同意授予博士学位的委员 人, 超过委员总数的半数。决定授予 博士学位。</p> <p>主席签字: (公章)</p> <p style="text-align: right;">年 月 日</p>