



Author(s) Kasanen, Lauri	Type of publication Bachelor's Thesis	Date 13.04.2014
	Pages 36	Language English
		Permission for web publication (X)
Title Optimizing Radeon VRAM behavior		
Degree Programme Software Engineering		
Tutor(s) Rantala, Ari		
Assigned by		
<p>Abstract</p> <p>The possibility of applying neural networks for optimizing VRAM behavior was researched. A set of software including a memory simulator was created for the task.</p> <p>In this study, the state of the art of neural networks is shortly reviewed, as well as the common applications for each method. The methods chosen for this study are covered in more detail. The simulator was first used in minimizing fragmentation, and later on in training the AI.</p> <p>As a result, fragmentation was improved in such a way that eviction was reduced by up to 20%. The AI achieved acceptable results, improving most tested applications by 1-2% under memory pressure.</p>		
Keywords Radeon, graphics adapters, artificial intelligence, neural network		
Miscellaneous		