TENNESSEE KNOXVILLE	AICIP RESEARCH
ECE599/692 - Deep Learning	
Lecture 17 – Attention: Hairong Qi, Gonzalez Family Professor Electrical Engineering and Computer Science University of Tennessee, Knoxville http://www.eess.utk.edu/faculty/gi Email: hqi@utk.edu	-
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References	AICIP RESEARCH
 D. Bahdanau, K. Cho, and Y. Bengio. N machine translation by jointly learning to translate. <i>ICLR</i> 2015. 	leural o align and
<u>K. Xu, et al. Show, attend and tell: Neur</u> caption generation with visual attention. <i>ICML</i> 2015.	al image
Vaswani, et al. Attention Is All You Nee 2017	d. <i>NIPS</i> ,



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TENNESSEE

1







day month year































Outline

What is Attention?Why Attention?

Self-Attention

E.g., Transformer

Where is Attention used?

TENNESSEE

• How does Attention work?























