Midterm Paper Study - Coding in Al 2023

Rules

- 1. Group Size: Each group consists of 2-3 people.
- 2. Bidding Points: Every group starts with 100 bidding points.
- 3. Topic Bids: You can bid on 1-3 topics.
- 4. Example Bids:
 - Bid for Paper 1 50 points.
 - Bid for Paper 2 49 points.
 - Bid for Paper 3 1 point.
- 5. Paper Assignment:
 - Each paper will be assigned to the group with the highest bid points.
 - If you do not win any bids, you will be assigned a paper that was not chosen by others.
 - In the event of two or more groups placing equal bids on one paper, the group that placed the bid first will be awarded that paper.
- 6. Bid Timing: The bid placement form will be open from 6:00 PM today and will close at midnight.
- 7. Result Announcement: Bidding results will be announced tomorrow.

Midterm Paper

You have to write a review report based on your assigned research paper and present it in the class.

Your review report should consist of the following sections:

- 1. Abstract
- 2. Introduction
- 3. Theory
- 4. Experimental Design and Results
- 5. Conclusion
- 6. References

Images

I 1	"ImageNet Classification with Deep Convolutional Neural Networks"
	Authors: Alex Krizhevsky et al.
	• Link: <u>arXiv</u>
12	"Faster R-CNN: Towards Real-Time Object Detection with Region Proposal
	Networks"
	Authors: Shaoqing Ren et al.
	• Link: arXiv
13	"Semantic Image Segmentation with Deep Convolutional Nets and Fully
	Connected CRFs"
	Authors: Liang-Chieh Chen et al.
	• Link: arXiv
14	"Mask R-CNN"
	Authors: Kaiming He et al.
	• Link: arXiv
15	"Show and Tell: A Neural Image Caption Generator"
	Authors: Oriol Vinyals, Alexander Toshev, Samy Bengio, and Dumitru Erhan
	• Link: arXiv
16	"Unsupervised Representation Learning with Deep Convolutional Generative
	Adversarial Networks"
	Authors: Alec Radford, Luke Metz, and Soumith Chintala
	Link: <u>arXiv</u>
17	"EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks"
	Authors: Mingxing Tan and Quoc V. Le
	Link: <u>arXiv</u>

Video/Sequence Images

V1	"You Only Look Once: Unified, Real-Time Object Detection"
	Authors: Joseph Redmon et al.
	• Link: <u>arXiv</u>
V2	"Fully-Convolutional Siamese Networks for Object Tracking"
	Authors: Luca Bertinetto et al.
	• Link: arXiv
V3	"SlowFast Networks for Video Recognition"
	Authors: Christoph Feichtenhofer et al.
	Link: <u>arXiv</u>
V4	"Learning Spatiotemporal Features with 3D Convolutional Networks"
	Authors: Du Tran et al.
	Link: <u>arXiv</u>
V5	"Temporal Convolutional Networks for Action Segmentation and Detection"
	Authors: Victor Escorcia et al.
	Link: <u>arXiv</u>
V6	"Quo Vadis, Action Recognition? A New Model and the Kinetics Dataset"
	Authors: Joao Carreira and Andrew Zisserman
	• Link: <u>arXiv</u>
V7	"Long-term recurrent convolutional networks for visual recognition and
	description"
	Authors: Jeff Donahue et al.
	• Link: <u>arXiv</u>

Text

T1	"Attention Is All You Need" (10)
	Authors: Ashish Vaswani et al.
	Link: arXiv
T2	"BERT: Pre-training of Deep Bidirectional Transformers for Language
	Understanding" (9)
	Authors: Jacob Devlin et al.
	• Link: <u>arXiv</u>
Т3	"XLNet: Generalized Autoregressive Pretraining for Language Understanding"
	Authors: Zhilin Yang et al.
	• Link: <u>arXiv</u>
T4	"ULMFiT: Universal Language Model Fine-tuning for Text Classification" (9)
	Authors: Jeremy Howard and Sebastian Ruder
	• Link: <u>arXiv</u>
T5	"Sequence to Sequence Learning with Neural Networks" (8)
	Authors: Ilya Sutskever et al.
	Link: <u>arXiv</u>
Т6	"Wabiqa: A wikipedia-based thai question-answering system" (8)
	Authors: Noraset Thanapon et al.
	Link: sciencedirect.com
T7	"Attacut: A fast and accurate neural thai word segmenter" (8)
	Authors: Chormai Pattarawat et al.
	Link: <u>arXiv</u>

Speech

S1	"Deep Speech: Scaling up end-to-end speech recognition"
	Authors: Awni Hannun et al.
	Link: <u>arXiv</u>
S2	"Listen, Attend and Spell"
	Authors: Chan et al.
	• Link: <u>arXiv</u>
S3	"WaveNet: A Generative Model for Raw Audio"
	Authors: van den Oord et al.
	Link: <u>arXiv</u>
S4	"Deep Voice: Real-time Neural Text-to-Speech"
	Authors: Sercan O. Arik et al.
	Link: <u>arXiv</u>
S5	"Convolutional-recurrent neural networks for speech enhancement"
	Authors: Zhao et al.
	Link: <u>IEEE</u>
S6	"Looking to Listen at the Cocktail Party: A Speaker-Independent Audio-Visual
	Model for Speech Separation"
	Authors: Luo et al.
	Link: <u>arXiv</u>
S7	"Augmenting Generative Adversarial Networks for Speech Emotion Recognition"
	Authors: Siddique Latif et al.
	Link: <u>arXiv</u>