

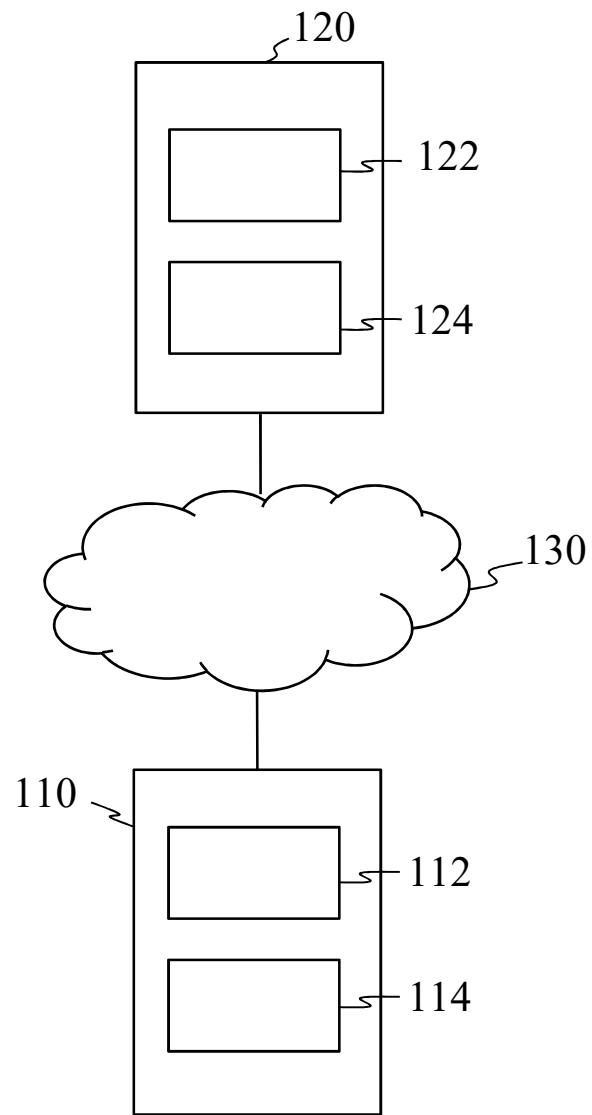


FIG. 1

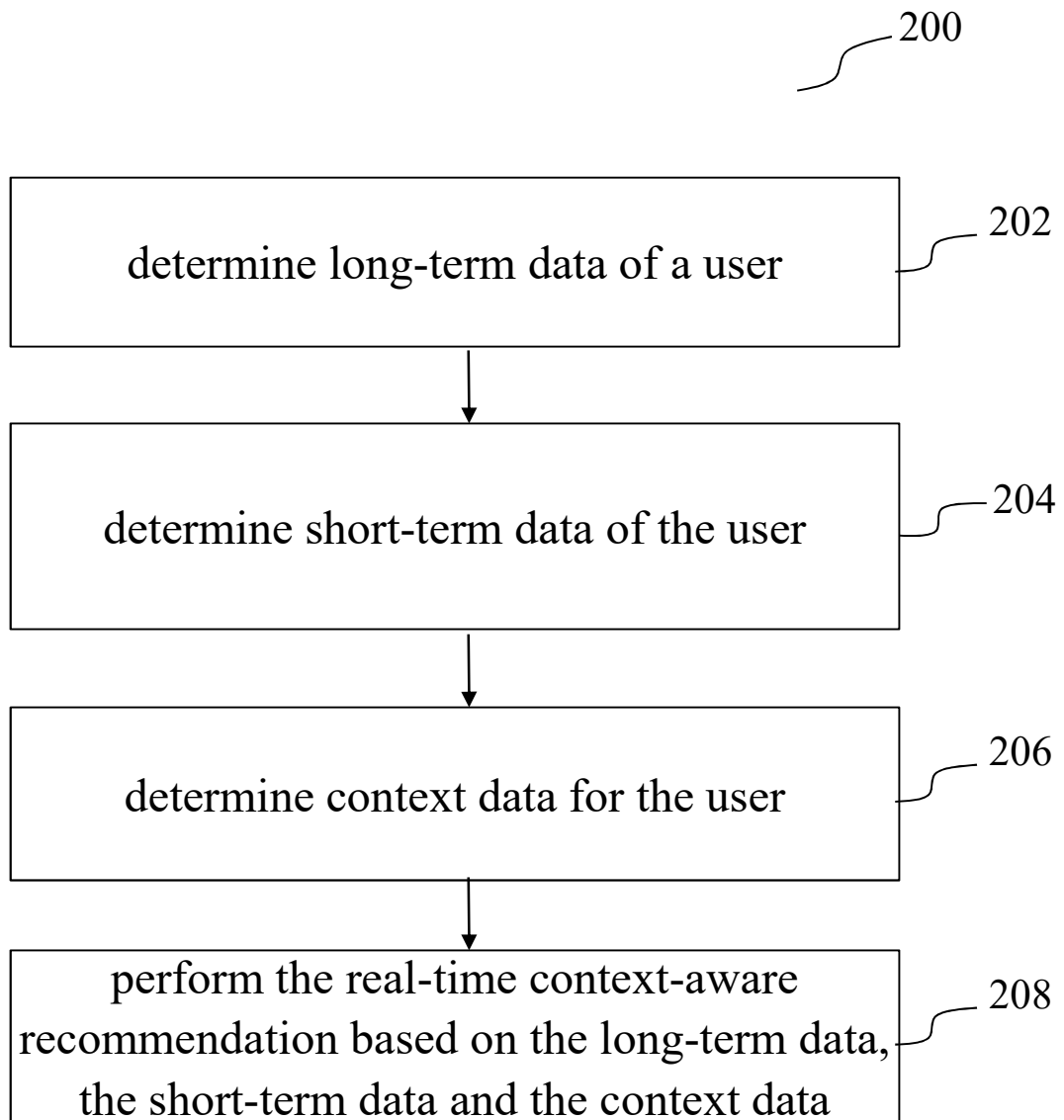


FIG. 2

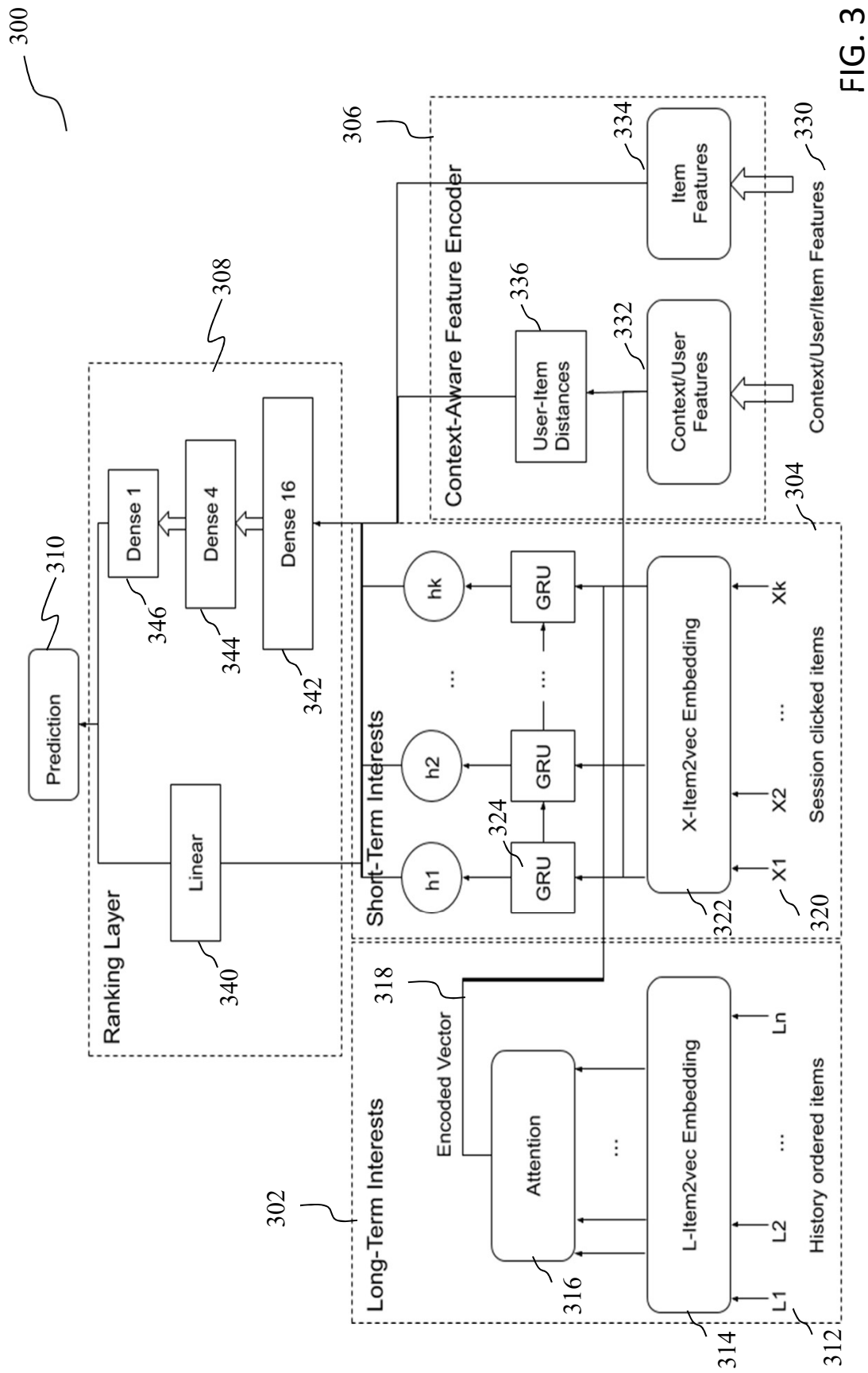


FIG. 3

Name	SIMS	HRNN-Meta	CANN	CANN with trainable embedding
recall@5_click	0.115463	0.134965	0.156445	0.158294
mrr@5_click	0.041203	0.055647	0.0643	0.064891
recall@10_click	0.194536	0.225245	0.253238	0.255502
mrr@10_click	0.051683	0.067552	0.077091	0.077793
recall@5_order	0.154112	0.186905	0.229766	0.228824
mrr@5_order	0.05745	0.079225	0.096444	0.098278
recall@10_order	0.256509	0.302873	0.351347	0.350752
mrr@10_order	0.070947	0.094555	0.112599	0.114632

FIG. 4