

Table 1. Overall performance for three synthetic datasets with Assumption 5

Method	T-DSCM				Change in causal coefficients				Change in noise			
	PR@1	PR@3	PR@5	MRR	PR@1	PR@3	PR@5	MRR	PR@1	PR@3	PR@5	MRR
T-RCA	100%	94%	100%	100%	98%	85%	97%	100%	78%	81%	86%	88%
RCD	44%	44%	77%	47%	28%	52%	84%	48%	18%	24%	53%	37%
AITIA-PM	28%	54%	87%	72%	34%	55%	89%	71%	20%	25%	41%	33%
EasyRCA*	42%	61%	91%	68%	96%	98%	99%	97%	12%	24%	60%	43%
CIRCA*	28%	44%	84%	70%	40%	56%	88%	64%	100%	99%	100%	45%
CloudRanger	40%	46%	72%	60%	44%	66%	91%	66%	12%	27%	47%	36%
MicroCause	40%	49%	81%	59%	14%	40%	82%	46%	18%	16%	33%	42%
MonitorRank	64%	70%	91%	65%	44%	56%	82%	65%	54%	43%	68%	34%

Table 2. Overall performance for three synthetic datasets without Assumption 5

Method	T-DSCM				Change in causal coefficients				Change in noise			
	PR@1	PR@3	PR@5	MRR	PR@1	PR@3	PR@5	MRR	PR@1	PR@3	PR@5	MRR
T-RCA	100%	70%	96%	100%	98%	70%	89%	98%	76%	62%	72%	89%
T-RCA-agent	100%	100%	100%	100%	92%	97%	99%	100%	74%	80%	86%	83%
RCD	64%	55%	83%	57%	36%	51%	84%	65%	10%	28%	45%	42%
AITIA-PM	34%	49%	77%	56%	26%	38%	80%	56%	20%	27%	44%	45%
EasyRCA*	36%	49%	83%	62%	98%	87%	96%	98%	24%	20%	49%	35%
CIRCA*	24%	50%	83%	54%	86%	64%	83%	38%	84%	69%	79%	42%
CloudRanger	24%	54%	79%	66%	34%	40%	80%	57%	26%	28%	45%	44%
MicroCause	46%	49%	84%	57%	44%	53%	90%	54%	20%	36%	50%	41%
MonitorRank	56%	68%	90%	55%	22%	39%	81%	44%	62%	56%	74%	37%

Table 3. Overall performance for Real IT monitoring data

Method	Real IT monitoring data			
	PR@1	PR@3	PR@5	MRR
T-RCA	100%	100%	100%	50%
RCD	0%	0%	50%	17%
AITIA-PM	0%	0%	50%	14%
EasyRCA*	100%	50%	100%	33%
CIRCA*	0%	0%	0%	33%
CloudRanger	0%	0%	50%	17%
MicroCause	100%	50%	50%	14%
MonitorRank	0%	0%	50%	20%