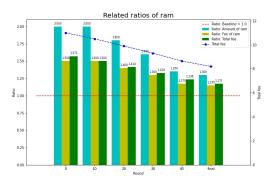
## APPENDIX

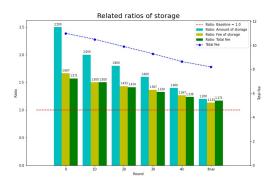
## A. Tables

TABLE XVI: The 30-rule set

	Fuzzy input				Fuzzy output
Rule index	VUPR	RUPR	SUPR	TPR	Tendency
1	\	\	\	high	low
2	\	\	\	medium	medium
3	\	\	\	low	high
4	cheap	cheap	cheap	\	high
5	cheap	cheap	medium	\	medium
6	cheap	cheap	expensive	\	medium
7	cheap	medium	cheap	\	medium
8	cheap	medium	medium	\	low
9	cheap	medium	expensive	\	medium
10	cheap	expensive	cheap	(	high
11	cheap	expensive	medium	\	high
12	cheap	expensive	expensive	\	medium
13	medium	cheap	cheap	\	medium
14	medium	cheap	medium	\	medium
15	medium	cheap	expensive	\	low
16	medium	medium	cheap	\	medium
17	medium	medium	medium	\	high
18	medium	medium	expensive	\	high
19	medium	expensive	cheap	\	medium
20	medium	expensive	medium	\	medium
21	medium	expensive	expensive	\	medium
22	expensive	cheap	cheap	\	low
23	expensive	cheap	medium	\	medium
24	expensive	cheap	expensive	\	high
25	expensive	medium	cheap	\	high
26	expensive	medium	medium	\	medium
27	expensive	medium	expensive	\	medium
28	expensive	expensive	cheap	\	medium
29	expensive	expensive	medium	\	medium
30	expensive	expensive	expensive	\	medium

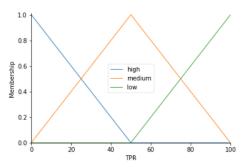


(a) Comparison of the ratios (RAM)

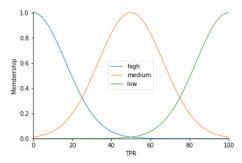


(b) Comparison of the ratios (Storage)

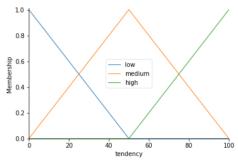
Fig. 6: Comparison of the ratios in different rounds of a negotiation process



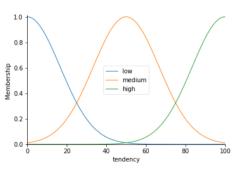
(a) Triangular membership function of TPR



(b) Gaussian membership function of TPR

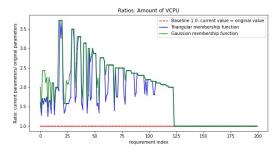


(c) Triangular membership function of tendency

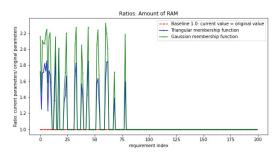


(d) Gaussian membership function of tendency

Fig. 7: Membership functions of total price ratio (TPR) and tendency. Horizontal axis scaled from [0,1] to [0,100] for better visualization.



(a) The ratio of the amount of VCPU



(b) The ratio of the amount of RAM

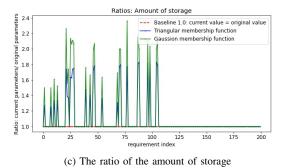
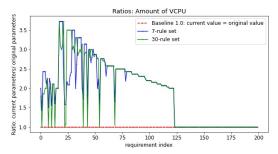
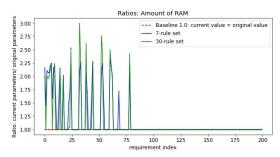


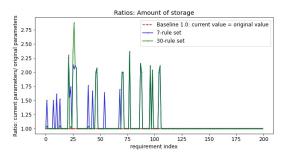
Fig. 8: Plots of ratios in negotiation experiments (different membership functions)



(a) The ratio of the amount of VCPU

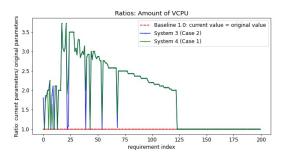


(b) The ratio of the amount of RAM

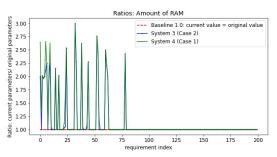


(c) The ratio of the amount of storage

Fig. 9: Plots of ratios in negotiation experiments (different rule sets)



(a) The ratio of the amount of VCPU



(b) The ratio of the amount of RAM

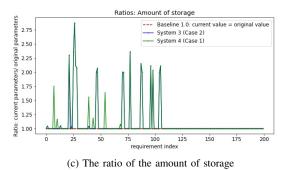
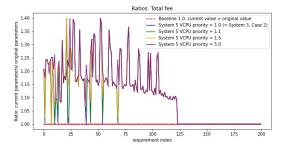
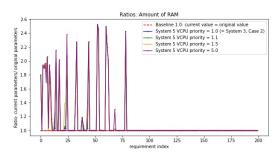


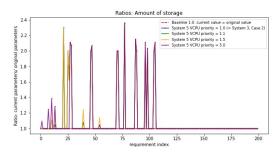
Fig. 10: Plots of ratios in negotiation experiments (different cases)



(a) The ratio of the total fee

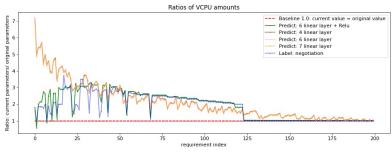


(b) The ratio of the amount of RAM

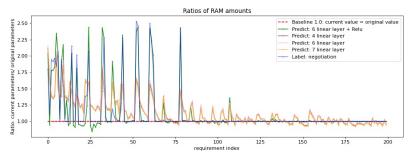


(c) The ratio of the amount of storage

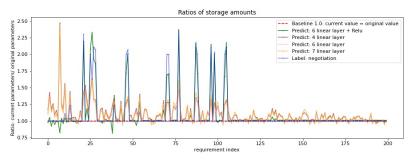
Fig. 11: Plots of ratios in negotiation experiments (different priorities)



(a) Comparison of ratios (VCPU)



(b) Comparison of ratios (RAM)



(c) Comparison of ratios (Storage)

Fig. 12: Comparison of ratios of predictions to the ratios of labels