Energy-Efficient Offloading for DNN-based Smart IoT Systems in Cloud-Edge Environments

The configurations of edge servers

The edge-cloud environment with 2 edge servers

Servers	p_i	c_i	t_i	e_i^r	e_i^s	e_i^c
$\{s_1, s_2, \ldots, s_{10}\}$	0.5	1	0	0.1	30	0.1
s_{11}	0.8	4	1	0.18	45	0.18
s_{12}	1.2	4	1	0.22	45	0.22
s_{13}	2	8	2	0.3	60	0.3

The edge-cloud environment with 4 edge servers

Servers	p_i	c_i	t_i	e_i^r	e_i^s	e_i^c
$\{s_1, s_2, \ldots, s_{10}\}$	0.5	1	0	0.1	30	0.1
s_{11}	1	4	1	0.2	45	0.2
s_{12}	0.8	4	1	0.18	45	0.18
s_{13}	1.2	4	1	0.22	45	0.22
s_{14}	1.5	4	1	0.27	45	0.27
s_{15}	2	8	2	0.3	60	0.3

The edge-cloud environment with 6 edge servers

Servers	p_i	c_i	t_i	e_i^r	e_i^s	e_i^c
$\{s_1, s_2, \ldots, s_{10}\}$	0.5	1	0	0.1	30	0.1
s_{11}	1	4	1	0.2	45	0.2
s_{12}	0.9	4	1	0.19	45	0.19
s_{13}	0.8	4	1	0.18	45	0.18
s_{14}	1.2	4	1	0.22	45	0.22
s_{15}	1.3	4	1	0.24	45	0.25
s_{16}	1.5	4	1	0.27	45	0.27
s_{17}	2	8	2	0.3	60	0.3

The edge-cloud environment with 8 edge servers

Servers	p_i	c_i	t_i	e_i^r	e_i^s	e_i^c
$\{s_1, s_2, \ldots, s_{10}\}$	0.5	1	0	0.1	30	0.1
s_{11}	1	4	1	0.2	45	0.2
s_{12}	0.9	4	1	0.19	45	0.19
s_{13}	0.8	4	1	0.18	45	0.18
s_{14}	1.1	4	1	0.2	45	0.2
s_{15}	1.2	4	1	0.22	45	0.22
s_{16}	1.3	4	1	0.24	45	0.25
s_{17}	1.4	4	1	0.26	45	0.26
s_{18}	1.5	4	1	0.27	45	0.27
s_{19}	2	8	2	0.3	60	0.3

The edge-cloud environment with 10 edge servers

Servers	p_i	c_i	t_i	e_i^r	e_i^s	e_i^c
$\{s_1, s_2, \ldots, s_{10}\}$	0.5	1	0	0.1	30	0.1
s_{11}	0.8	4	1	0.18	45	0.18
s_{12}	0.9	4	1	0.19	45	0.19
s_{13}	1	4	1	0.2	45	0.2
s_{14}	1.1	4	1	0.2	45	0.2
s_{15}	1.2	4	1	0.22	45	0.22
s_{16}	1.2	4	1	0.22	45	0.22
s_{17}	1.3	4	1	0.24	45	0.25
s_{18}	1.3	4	1	0.24	45	0.25
s_{19}	1.4	4	1	0.26	45	0.26
s_{20}	1.5	4	1	0.27	45	0.27
s_{21}	2	8	2	0.3	60	0.3