Table 1: Control Experiments.

Algorithm	Framework	Evaluation	Global Best	Name
ВА	UNIOA	sync	CVIDG	UNIOA_BA_syncE_syncG
		async	sync	UNIOA_BA_asyncE_syncG
	SEPARATE	sync	sync	SEP_BA_syncE_syncG
		async	sync	SEP_BA_asyncE_syncG
			async	SEP_BA_asyncE_asyncG
	UNIOA	sync	sync	UNIOA_GOA_syncE_syncG
GOA		async	Sylic	UNIOA_GOA_asyncE_syncG
	SEPARATE	sync	sync	SEP_GOA_syncE_syncG
		async	sync	SEP_GOA_asyncE_syncG
			async	SEP_GOA_asyncE_asyncG
МВО	UNIOA	sync	sync	UNIOA_MBO_syncE_syncG
		async		UNIOA_MBO_asyncE_syncG
	SEPARATE	sync	sync	SEP_MBO_syncE_syncG
		async	sync	SEP_MBO_asyncE_syncG
			async	SEP_MBO_asyncE_asyncG
	UNIOA	sync	SVIDC	UNIOA_BOA_syncE_syncG
		async	sync	UNIOA_BOA_asyncE_syncG
ВОА		UNIOA	sync	SEP_BOA_syncE_syncG
	SEPARATE	async	sync	SEP_BOA_asyncE_syncG
			async	SEP_BOA_asyncE_asyncG
PSO	UNIOA	sync	sync	UNIOA_PSO_syncE_syncG
		async	Sylic	UNIOA_PSO_asyncE_syncG
	SEPARATE	sync	sync	SEP_PSO_syncE_syncG
		async	sync	SEP_PSO_asyncE_syncG
			async	SEP_PSO_asyncE_asyncG

Table 2: Control Experiments.

Algorithm	Framework	Evaluation	Name
CSA	UNIOA	sync	UNIOA_CSA_syncE
	UNIOA	async	UNIOA_CSA_asyncE
	SEPARATE	sync	SEP_CSA_syncE
	JLI AIXATE	async	SEP_CSA_asyncE
	UNIOA	sync	UNIOA_MFO_syncE
MFO	UNIOA	async	UNIOA_MFO_asyncE
IVII O	SEPARATE	sync	SEP_MFO_syncE
	JLI AINAT L	async	SEP_MFO_asyncE