Mario AI Benchmark 1 . Setup options.

Option key	Description	Values range	Example
-echo	Output all command line options to console after initialization	<on off>. Default: off</on off>	Main -echo on
-ag	AgentName should extend Register-	AgentName or Agents im-	Main -ag ForwardAgent
	ableAgent in order for the native agent	plementations. Default:	
	to be available from command line	HumanKeyboardAgent	
-ze	Observation Detalization for Enemies.	<0 1 2>. Default: 0	Main -ze 0
	0 - The most detailed		
-vis	Enable Visualization	<on off>. Default: off</on off>	Main -vis on
-vaot	Set main View to be on top of other windows	<on off>. Default: off</on off>	Main -vaot on
-tl	Time limit. Option value: [1MAX-INT], units: marioseconds (1 MrSEC	<int>. Default: 200</int>	Main -tl 42
	== 16 interactions with Environment).		
	To give to the Agent the opportunity of		
	infinitie time per level use Option value		
	= -1		
-pw	Pause of the World. Freezes animation	<on off>. Default: off</on off>	Main -pw on
	all the sprites and disables Mario inter-		
	action with creatures. Mario still can		
	run and get level observation		
-pr	Enable Power restoration. Enable	<on off>. Default: off</on off>	Main -pr on
	Power restoration by pressing speed		
C	button (A on a keyboard)		, , , , , , , , , , , , , , , , , , ,
-ewf	Exit program when simulation is over	<on off>. Default: on</on off>	Main -ewf off
-gv	Enable Game Viewer	<on off>. Default: off</on off>	Main -gv on
-gvc	Enable Continuous Updates in GameViewer	<on off>. Default: off</on off>	Main -gvc on
-rfw	Set receptive field width	Any odd number $\in (0, -ll)$. Default:	Main -rfw 5
		$= (0, -it). \qquad \text{Default.}$ 19.	
-rfh	Set receptive field height	Any odd number $\in (0, -lh)$. Default:	Main -rfh 7
		19.	
-srf	Set receptive field (grid) visible	<on off> Default: off</on off>	Main -srf on
-mm	Mario Mode. 0 – small,1 - large, 2 -	<0 1 2>. Default: 2	Main -mm 1
	large, fire ability is available		

 $^{^{1}}$ v-0.1.7a compliant

Option key	Description	Values range	Example
-fps	Change FPS. 100 enables max FPS	<pre><integers [1100]="" in="">. Default: 24</integers></pre>	Main -fps 50
-lt	Level type. 0 - Overground, 1 - Underground, 2 - Castle	<0 1 2>. Default: 0	Main -lt 1
-ls	Level (Randomization) Seed	<pre><integers [1maxint]="" in="">. Default: 0</integers></pre>	Main -ls 42
-11	Level length	<pre><integers [14096]="" in="">. Default: 320</integers></pre>	Main -ll 550
-lh	Level height	<pre><integers [14096]="" in="">. Default: 15</integers></pre>	Main -lh 18
-ld	Level Difficulty	<pre><integers [0maxint]="" in="">. Default: 0</integers></pre>	Main -ld 5
-lde	Enable/disable dead ends on the level	<on off>. Default: off</on off>	Main -lde on
-lc	Enable/disable cannons on the level	<on off>. Default: on</on off>	Main -lc off
-lhs	Enable/Disable hills on the level	<on off>. Default: on</on off>	Main -lhs off
-ltb	Enable/Disable tubes on the level	<on off>. Default: on</on off>	Main -ltb off
-lg	Enable/Disable gaps on the level	<on off>. Default: on</on off>	Main -lg off
-lhb	Enable/Disable hidden blocks on the level ²	<on off>. Default: off</on off>	Main -lhb off
-le	Customize creatures on the level. Creatures, that will be on the level are defined with bit mask. From left to right:	<xxxxxxxxx>. Default: 1111111111</xxxxxxxxx>	Main -le 0
	1. goomba		
	2. green koopa		
	3. red koopa		
	4. spiky		
	5. winged goomba		
	6. winged green koopa		
	7. winged red koopa		
	8. winged spiky		
	9. spiky flower		
	Replace x with 1 if you want creature to be on the level, otherwise 0. For more details and examples see marioai-lvlgen-options-usage.pdf		
-lb	Enable/Disable visible blocks on the level	<on off>. Default: on</on off>	Main -lb off
-lco	Enable/Disable coins on the level	<on off>. Default: on</on off>	Main -lco off
-lf	Create flat level	<on off>. Default: off</on off>	Main -lf on
-stop	Run benchmark and stop a game- play. To continue a gameplay press a SPACEBAR key.	<on off>. Default: off</on off>	Main -stop on

Table 1: Setup options for the Mario AI benchmark. Options can be set up via CmdLineOptions.setArgs() method that accepts both array of strings and a single string or by setting individual options with corresponding methods.