

## Team Avalon

euRathlon 2014 sea competition - 29 Sept - 4 Oct, La Spezia, Italy

Area Survey						
Scenario Parameters			Vehicle Performance		Notes	
Performance Measures	Parameters for task	Value	Max Score	Parameter	Score	Parameter value
Wall inspection	Wall Survey coverage	0-100%	500	100%	500	Variable points for Wall inspection depending on coverage. Penalty for each exit of survey corridor
	Penalty /Number of exit from safety corridor	-50		0		
	Target Detection	0/1	200	0	0	
	Target inspection	0/1	300	0	0	
Area Survey	Number of OPIs to detect	5	500	2	200	To get a successful detection awarded, the location of the OPI in the map provided needs to be less than 2 meters radius from the real position. The OPI position should be reported relative to the top left corner of the pool.
	OPI-1 position error(m)	2		4		With respect to real OPI position. Error calculated based on either map provided with detection position or absolute position of OPI wrt a known reference point.
	OPI-2 position error(m)			1		
	OPI-3 position error(m)			4		
	OPI-4 position error(m)			4		
	OPI-5 position error(m)			1		
	Number of False Positives			0		
	Quality of OPIs Mapping	Calculated based on positions reported by team	2500		333.3333333	The total distance error is calculated by summing the errors for each object detected. These errors are calculated by calculating the distance of each object detected to the nearest OPI in the map. Detected objects will only be valid if a visual or sonar Id is provided. The origin to report the position of the objects will have to be specified by the team.
Quality of Overall Map	0-100%	500	30%	150		
Penalty for each manual intervention	Physical intervention on vehicle	Number of interventions	-250	0	0	
AUV/USV Collaboration	Bonus	0/1	500	0	0	
Time Bonus	Best overall time (minutes)	40	500	11.33333333	500	The full mission time bonus is given for missions completed before 40 minutes and then decreases linearly to reach zero at 60 minutes.
Subjective Measures	See Table Below		1500		1080	
<b>Total</b>			<b>6800</b>		<b>2763.333333</b>	

Benchmarking						
Completeness	4.00					

Subjective measures		
	Max Points	Team Performance
SAP Journal	200	170
SAP Video	100	0
Technical Merit	250	230
Craftmanship	250	230
Safety of design	250	230
Innovation	250	170
Discretionary points	200	50
<b>Total</b>	<b>1500</b>	<b>1080</b>

**Team SAUC'ISSE**

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Area Survey						
Scenario Parameters			Vehicle Performance		Notes	
Performance Measures	Parameters for task	Value	Max Score	Parameter	Score	Parameter value
Wall inspection	Wall Survey coverage	0-100%	500	100%	500	Variable points for Wall inspection depending on coverage. Penalty for each exit of survey corridor
	Penalty /Number of exit from safety corridor	-50		0		
	Target Detection	0/1	200	0.5	100	
	Target inspection	0/1	300	0.5	150	
Area Survey	Number of OPIs to detect	5	500	1	100	To get a successful detection awarded, the location of the OPI in the map provided needs to be less than 2 meters radius from the real position. The OPI position should be reported relative to the top left corner of the pool.
	OPI-1 position error(m)	2		4		With respect to real OPI position. Error calculated based on either map provided with detection position or absolute position of OPI wrt a known reference point.
	OPI-2 position error(m)			4		
	OPI-3 position error(m)			4		
	OPI-4 position error(m)			4		
	OPI-5 position error(m)			4		
	Number of False Positives					
	Quality of OPIs Mapping	Calculated based on positions reported by team	2500		100	The total distance error is calculated by summing the errors for each object detected. These errors are calculated by calculating the distance of each object detected to the nearest OPI in the map. Detected objects will only be valid if a visual or sonar Id is provided. The origin to report the position of the objects will have to be specified by the team.
Quality of Overall Map	0-100%	500	10%	50		
Penalty for each manual intervention	Physical intervention on vehicle	Number of interventions	-250	0	0	
AUV/USV Collaboration	Bonus	0/1	500	0	0	
Time Bonus	Best overall time (minutes)	40	500	19.68333333	500	The full mission time bonus is given for missions completed before 40 minutes and then decreases linearly to reach zero at 60 minutes.
Subjective Measures	See Table Below		1500		910	
<b>Total</b>			<b>6800</b>		<b>2410</b>	

Benchmarking						
Completeness	4.00					

Subjective measures		
	Max Points	Team Performance
SAP Journal	200	200
SAP Video	100	0
Technical Merit	250	160
Craftmanship	250	100
Safety of design	250	70
Innovation	250	180
Discretionary points	200	200
<b>Total</b>	<b>1500</b>	<b>910</b>

**Team University of Girona**

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Area Survey						
Scenario Parameters			Vehicle Performance		Notes	
Performance Measures	Parameters for task	Value	Max Score	Parameter	Score	Parameter value
Wall inspection	Wall Survey coverage	0-100%	500	100%	500	Variable points for Wall inspection depending on coverage. Penalty for each exit of survey corridor
	Penalty /Number of exit from safety corridor	-50		0		
	Target Detection	0/1	200	0	0	
	Target inspection	0/1	300	0	0	
Area Survey	Number of OPIs to detect	5	500	1	100	To get a successful detection awarded, the location of the OPI in the map provided needs to be less than 2 meters radius from the real position. The OPI position should be reported relative to the top left corner of the pool.
	OPI-1 position error(m)	2		4		With respect to real OPI position. Error calculated based on either map provided with detection position or absolute position of OPI wrt a known reference point.
	OPI-2 position error(m)			4		
	OPI-3 position error(m)			4		
	OPI-4 position error(m)			4		
	OPI-5 position error(m)			4		
	Number of False Positives			0		
	Quality of OPIs Mapping	Calculated based on positions reported by team	2500		100	The total distance error is calculated by summing the errors for each object detected. These errors are calculated by calculating the distance of each object detected to the nearest OPI in the map. Detected objects will only be valid if a visual or sonar Id is provided. The origin to report the position of the objects will have to be specified by the team.
Quality of Overall Map	0-100%	500	20%	100		
Penalty for each manual intervention	Physical intervention on vehicle	Number of interventions	-250	0	0	
AUV/USV Collaboration	Bonus	0/1	500	0	0	
Time Bonus	Best overall time (minutes)	40	500	13.66666667	500	The full mission time bonus is given for missions completed before 40 minutes and then decreases linearly to reach zero at 60 minutes.
Subjective Measures	See Table Below		1500		1110	
<b>Total</b>			<b>6800</b>		<b>2410</b>	

Benchmarking						
Completeness	4.00					

Subjective measures		
	Max Points	Team Performance
SAP Journal	200	200
SAP Video	100	0
Technical Merit	250	230
Craftmanship	250	230
Safety of design	250	230
Innovation	250	180
Discretionary points	200	40
<b>Total</b>	<b>1500</b>	<b>1110</b>

**Team CISSAU**

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Area Survey						
Scenario Parameters			Vehicle Performance		Notes	
Performance Measures	Parameters for task	Value	Max Score	Parameter	Score	Parameter value
Wall inspection	Wall Survey coverage	0-100%	500	100%	500	Variable points for Wall inspection depending on coverage. Penalty for each exit of survey corridor
	Penalty /Number of exit from safety corridor	-50		0		
	Target Detection	0/1	200	1	200	
	Target inspection	0/1	300	0	0	
Area Survey	Number of OPIs to detect	5	500	0	0	To get a successful detection awarded, the location of the OPI in the map provided needs to be less than 2 meters radius from the real position. The OPI position should be reported relative to the top left corner of the pool.
	OPI-1 position error(m)	2		0		With respect to real OPI position. Error calculated based on either map provided with detection position or absolute position of OPI wrt a known reference point.
	OPI-2 position error(m)			0		
	OPI-3 position error(m)			0		
	OPI-4 position error(m)			0		
	OPI-5 position error(m)			0		
	Number of False Positives			4		
	Quality of OPIs Mapping	Calculated based on positions reported by team	2500		0	The total distance error is calculated by summing the errors for each object detected. These errors are calculated by calculating the distance of each object detected to the nearest OPI in the map. Detected objects will only be valid if a visual or sonar Id is provided. The origin to report the position of the objects will have to be specified by the team.
Quality of Overall Map	0-100%	500	0%	0		
Penalty for each manual intervention	Physical intervention on vehicle	Number of interventions	-250	0	0	
AUV/USV Collaboration	Bonus	0/1	500	0	0	
Time Bonus	Best overall time (minutes)	40	500	40	500	The full mission time bonus is given for missions completed before 40 minutes and then decreases linearly to reach zero at 60 minutes.
Subjective Measures	See Table Below		1500		1025	
<b>Total</b>			<b>6800</b>		<b>2225</b>	

Benchmarking						
Completeness	3.00					

Subjective measures		
	Max Points	Team Performance
SAP Journal	200	150
SAP Video	100	75
Technical Merit	250	200
Craftmanship	250	150
Safety of design	250	150
Innovation	250	150
Discretionary points	200	150
<b>Total</b>	<b>1500</b>	<b>1025</b>