Team name: $\underline{TMM} + P_I$	OMBINO
Referee I (Land):	, Referee II (Land):
Referee I (Air):	, Referee II (Air):
FBM-2 is calculated from data collected in the building and search for missing worke	he combined air and land robot challenge, TBM-2: Survey ers.
TBM-2 Date (DD/MM/YYYY):	, TBM-2 Time (24:00):
Duration TBM-2:	(Max. 45 min) ☐ Timeout

Data provided

Each team was required to provide a KML file, or equivalent, to the referees with the following data:

The location (GPS coordinates) of each OPIs found	
The type of each OPI found	M
An image (or equivalent scan) of the OPI as confirmation that the OPI was found	M

Scoring calculation

The maximum number of Objects of Potential Interest (OPIs) in TBM-2 is 11.

Number of OPIs correctly identified		
OPI	Data from TBM-2	
Missing worker outside the building	1	
Missing worker inside the building	1	
Obstructed entrances (max. 2)	2	
Unblocked entrance (max. 1)	1	
Damage to the outdoor walls (max. 3)	1	
Machine room entrance	1	
Damage to the indoor walls (max. 2)	0	
Total correctly identified objects	7	

Total OPIs found	7
Precision	1
Recall	0.63636
Index	0.77778

Кивероок.
Overall score FBM-2: 0.77778 (Calculated post-competition)
Referees that have calculated and reviewed the overall score:
Referee I:Professor Alan Winfield
Referee II:Dr. Francisco Javier Pérez Grau
Lange Sans

Referee signature: _

Team name: SEBOT + H	SR
Referee I (Land):	, Referee II (Land):
Referee I (Air):	, Referee II (Air):
FBM-2 is calculated from data collected in the building and search for missing worke	ne combined air and land robot challenge, TBM-2: Survey rs.
TBM-2 Date (DD/MM/YYYY):	, TBM-2 Time (24:00):
Duration TBM-2:	(Max. 45 min) ☐ Timeout

Data provided

Each team was required to provide a KML file, or equivalent, to the referees with the following data:

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M
×
_

Scoring calculation

The maximum number of Objects of Potential Interest (OPIs) in TBM-2 is 11.

Number of OPIs correctly identified		
OPI	Data from TBM-2	
Missing worker outside the building	1	
Missing worker inside the building	0	
Obstructed entrances (max. 2)	0	
Unblocked entrance (max. 1)	0	
Damage to the outdoor walls (max. 3)	0	
Machine room entrance	0	
Damage to the indoor walls (max. 2)	0	
Total correctly identified objects	1	

Total OPIs found	1
Precision	1
Recall	0.09091
Index	0.16667

Overall score FBM-2: 0.16667 (Calculated post-competition)
Referees that have calculated and reviewed the overall score:
Referee I:Professor Alan Winfield
Referee II:Dr. Francisco Javier Pérez Grau
A Journal of the second of the
Referee signature:

Team name:	ENSTA	BRETAGNE	
Referee I (Land): _		, Referee II (Land):	
Referee I (Air):	, Referee II (Air):		
FBM-2 is calculated the building and se		cted in the combined air and land robot challenge, TBM-2: Survey g workers.	
TBM-2 Date (DD/N	/IM/YYYY):	, TBM-2 Time (24:00):	
Duration TBM-2: _		(Max. 45 min)	

Data provided

Each team was required to provide a KML file, or equivalent, to the referees with the following data:

×
×
×

Scoring calculation

The maximum number of Objects of Potential Interest (OPIs) in TBM-2 is 11.

Number of OPIs correctly identified	
OPI	Data from TBM-2
Missing worker outside the building	0
Missing worker inside the building	0
Obstructed entrances (max. 2)	2
Unblocked entrance (max. 1)	1
Damage to the outdoor walls (max. 3)	0
Machine room entrance	1
Damage to the indoor walls (max. 2)	0
Total correctly identified objects	4

Total OPIs found	4
Precision	1
Recall	0.36364
Index	0.53333

Ruicoon.		
Overall score FBM-2: _	0.53333	_(Calculated post-competition)
Referees that have calculate	ed and reviewed the over	rall score:
Referee I:Professor A	Alan Winfield	
Referee II:Dr. Francis	co Javier Pérez Grau	
		Jan

Referee signature:

Team name:	TELEROB + ISEP
Referee I (Land):	, Referee II (Land):
Referee I (Air):	, Referee II (Air):
	from data collected in the combined air and land robot challenge, TBM-2: Survey arch for missing workers.
TBM-2 Date (DD/N	M/YYYY):, TBM-2 Time (24:00):
Duration TBM-2:	(Max. 45 min) ☐ Timeout

Data provided

Each team was required to provide a KML file, or equivalent, to the referees with the following data:

The location (GPS coordinates) of each OPIs found	Æ
The type of each OPI found	×
An image (or equivalent scan) of the OPI as confirmation that the OPI was found	M

Scoring calculation

The maximum number of Objects of Potential Interest (OPIs) in TBM-2 is 11.

Number of OPIs correctly identified	
OPI	Data from TBM-2
Missing worker outside the building	1
Missing worker inside the building	1
Obstructed entrances (max. 2)	2
Unblocked entrance (max. 1)	1
Damage to the outdoor walls (max. 3)	3
Machine room entrance	1
Damage to the indoor walls (max. 2)	0
Total correctly identified objects	9

Total OPIs found	9
Precision	1
Recall	0.81818
Index	0.9

Overall score FBM-2: (Calculated post-competition)
Referees that have calculated and reviewed the overall score:
Referee I:Professor Alan Winfield
Referee II:Dr. Francisco Javier Pérez Grau
All the second of the second o
Referee signature:

Team name: ENSTA TE	EAM	
Referee I (Land):	, Referee II (Land):	
Referee I (Air):	, Referee II (Air):	
FBM-2 is calculated from data collected ithe building and search for missing wo	in the combined air and land robot challenge, TBM-2: Survey rkers.	
TBM-2 Date (DD/MM/YYYY):	, TBM-2 Time (24:00):	
Duration TBM-2:	(Max. 45 min) ☐ Timeout	

Data provided

Each team was required to provide a KML file, or equivalent, to the referees with the following data:

The location (GPS coordinates) of each OPIs found	
The type of each OPI found	×
An image (or equivalent scan) of the OPI as confirmation that the OPI was found	×

Scoring calculation

The maximum number of Objects of Potential Interest (OPIs) in TBM-2 is 11.

Number of OPIs correctly identified	
OPI	Data from TBM-2
Missing worker outside the building	0
Missing worker inside the building	0
Obstructed entrances (max. 2)	2
Unblocked entrance (max. 1)	1
Damage to the outdoor walls (max. 3)	1
Machine room entrance	1
Damage to the indoor walls (max. 2)	0
Total correctly identified objects	5

Total OPIs found	5
Precision	1
Recall	0.45455
Index	0.625

Overall score FBM-2:	0.625	(Calculated post-competition)
Referees that have calculated	and reviewed the ov	verall score:
Referee I:Professor Ala	an Winfield	
Referee II:Dr. Francisco	Javier Pérez Grau_	
		Janu
Referee signature:		

Team name: ETH	
Referee I (Land):, Referee II (Land):	
ree I (Air):, Referee II (Air):	
FBM-2 is calculated from data collected in the combined air and land robot challenge, TBM-2 the building and search for missing workers.	2: Survey
TBM-2 Date (DD/MM/YYYY):, TBM-2 Time (24:00):	
Duration TBM-2: (Max. 45 min) ☐ Timeout	
Data provided	
Each team was required to provide a KML file, or equivalent, to the referees with the following	ng data:
The location (GPS coordinates) of each OPIs found	
The type of each OPI found	
An image (or equivalent scan) of the OPI as confirmation that the OPI was found	

Scoring calculation

The maximum number of Objects of Potential Interest (OPIs) in TBM-2 is 11.

Number of OPIs correctly identified	
OPI	Data from TBM-2
Missing worker outside the building	0
Missing worker inside the building	0
Obstructed entrances (max. 2)	Q
Unblocked entrance (max. 1)	0
Damage to the outdoor walls (max. 3)	0
Machine room entrance	0
Damage to the indoor walls (max. 2)	0
Total correctly identified objects	0

Total OPIs found	0	
Precision	0	
Recall	0	
Index	0	

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Overall score FBM-2: (Calculated post-competition)
Referees that have calculated and reviewed the overall score: Referee I:Professor Alan Winfield
Referee II:Dr. Francisco Javier Pérez Grau
All ave
Referee signature:

Team name: RAPTOR	25
Referee I (Land):	, Referee II (Land):
Referee I (Air):	, Referee II (Air):
FBM-2 is calculated from data collected the building and search for missing w	d in the combined air and land robot challenge, TBM-2: Survey workers.
TBM-2 Date (DD/MM/YYYY):	, TBM-2 Time (24:00):
Duration TBM-2:	(Max. 45 min) Timeout

Data provided

Each team was required to provide a KML file, or equivalent, to the referees with the following data:

The location (GPS coordinates) of each OPIs found	
The type of each OPI found	×
An image (or equivalent scan) of the OPI as confirmation that the OPI was found	凶

Scoring calculation

The maximum number of Objects of Potential Interest (OPIs) in TBM-2 is 11.

Number of OPIs correctly identified	
OPI	Data from TBM-2
Missing worker outside the building	1
Missing worker inside the building	0
Obstructed entrances (max. 2)	2
Unblocked entrance (max. 1)	1
Damage to the outdoor walls (max. 3)	3
Machine room entrance	1
Damage to the indoor walls (max. 2)	0
Total correctly identified objects	8

Total OPIs found	8
Precision	1
Recall	0.72727
Index	0.84211

Overall score FBM-2:O.8421/(Calculated post-competition)
Overall score Fibiri-2.
Referees that have calculated and reviewed the overall score:
Referee I:Professor Alan Winfield
Referee II:Dr. Francisco Javier Pérez Grau
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Referee signature: