

FBM 3: Object Detection (Sea)

Team name: AUV Team Tomkyle

FBM-3 is calculated from the marine data collected from the best of the following challenges:

- **TBM-1: (Air + Land +Sea) The Grand Challenge**
- **TBM-3: (Sea + Air) Pipe inspection and search for missing workers**
- **TBM-4: (Land + Sea) Stem the leak**

Referee I (FBM-3 overall score calculation): 3

Referee II (FBM-3 overall score calculation): 3

Provided data

Map file in appropriate format (sonar, schematic, visual)	<input checked="" type="checkbox"/>
Sonar detection images:	<input checked="" type="checkbox"/>
Optical detection images:	<input type="checkbox"/>
Navigation log	<input checked="" type="checkbox"/>

Note: Not all data is necessarily needed to evaluate the FBM. E.g. either optical or sonar detections can be considered, no need for both.

Object to be detected	Buoy 1	Buoy 2	Buoy 3	Buoy 4	Buoy 5	CI	CC	Score
TBM-1	Yes	Yes	No	Yes	No	0	3	3
TBM-3	No	No	No	No	No	0	0	0
TBM-4	No	No	No	No	No	0	0	0

Overall score: 3 (Calculated post-competition)

Overall score is calculated as the best of the three scores obtained in TBM-1, TBM-3 and TBM-4 as mention in the Rulebook (Page 84: *The best performance will be the one considered for the final FBM ranking*).

Score is SCORE=2.5*CI+CC. where CI is correctly identified buoys (via black number) and CC is correctly classified buoys (without the detection of the black number).

Fausto Ferreira

Referee signature (overall score calculation): _____

Date: 21/11/2017

FBM 3: Object Detection (Sea)

Team name: ENSTA Bretagne

FBM-3 is calculated from the marine data collected from the best of the following challenges:

- TBM-1: (Air + Land + Sea) The Grand Challenge
- TBM-3: (Sea + Air) Pipe inspection and search for missing workers
- TBM-4: (Land + Sea) Stem the leak

Referee I (FBM-3 overall score calculation): 1

Referee II (FBM-3 overall score calculation): 1

Provided data

Map file in appropriate format (sonar, schematic, visual)	<input type="checkbox"/>
Sonar detection images:	<input type="checkbox"/>
Optical detection images:	<input checked="" type="checkbox"/>
Navigation log	<input checked="" type="checkbox"/>

Note: Not all data is necessarily needed to evaluate the FBM. E.g. either optical or sonar detections can be considered, no need for both.

Object to be detected	Buoy 1	Buoy 2	Buoy 3	Buoy 4	Buoy 5	CI	CC	Score
TBM-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TBM-3	No	No	No	No	No	0	0	0
TBM-4	Yes	No	No	No	No	0	1	1

Overall score: 1 (Calculated post-competition)

Overall score is calculated as the best of the three scores obtained in TBM-1, TBM-3 and TBM-4 as mention in the Rulebook (Page 84: *The best performance will be the one considered for the final FBM ranking*).

Score is SCORE=2.5*CI+CC. where CI is correctly identified buoys (via black number) and CC is correctly classified buoys (without the detection of the black number).

Fausto Ferreira

Referee signature (overall score calculation): _____

Date: 21/11/2017

FBM 3: Object Detection (Sea)

Team name: ENSTA Team

FBM-3 is calculated from the marine data collected from the best of the following challenges:

- **TBM-1: (Air + Land +Sea) The Grand Challenge**
- **TBM-3: (Sea + Air) Pipe inspection and search for missing workers**
- **TBM-4: (Land + Sea) Stem the leak**

Referee I (FBM-3 overall score calculation): 0

Referee II (FBM-3 overall score calculation): 0

Provided data

Map file in appropriate format (sonar, schematic, visual)	<input type="checkbox"/>
Sonar detection images:	<input type="checkbox"/>
Optical detection images:	<input type="checkbox"/>
Navigation log	<input checked="" type="checkbox"/>

Note: Not all data is necessarily needed to evaluate the FBM. E.g. either optical or sonar detections can be considered, no need for both.

Object to be detected	Buoy 1	Buoy 2	Buoy 3	Buoy 4	Buoy 5	CI	CC	Score
TBM-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TBM-3	No	No	No	No	No	0	0	0
TBM-4	No	No	No	No	No	0	0	0

Overall score: 0 (Calculated post-competition)

Overall score is calculated as the best of the three scores obtained in TBM-1, TBM-3 and TBM-4 as mention in the Rulebook (Page 84: *The best performance will be the one considered for the final FBM ranking*).

Score is SCORE=2.5*CI+CC. where CI is correctly identified buoys (via black number) and CC is correctly classified buoys (without the detection of the black number).

Fausto Ferreira

Referee signature (overall score calculation): _____

Date: 21/11/2017

FBM 3: Object Detection (Sea)

Team name: Universitat de Girona

FBM-3 is calculated from the marine data collected from the best of the following challenges:

- **TBM-1: (Air + Land +Sea) The Grand Challenge**
- **TBM-3: (Sea + Air) Pipe inspection and search for missing workers**
- **TBM-4: (Land + Sea) Stem the leak**

Referee I (FBM-3 overall score calculation): 4

Referee II (FBM-3 overall score calculation): 4

Provided data

Map file in appropriate format (sonar, schematic, visual)	<input checked="" type="checkbox"/>
Sonar detection images:	<input checked="" type="checkbox"/>
Optical detection images:	<input checked="" type="checkbox"/>
Navigation log	<input checked="" type="checkbox"/>

Note: Not all data is necessarily needed to evaluate the FBM. E.g. either optical or sonar detections can be considered, no need for both.

Object to be detected	Buoy 1	Buoy 2	Buoy 3	Buoy 4	Buoy 5	CI	CC	Score
TBM-1	No	Yes	Yes	Yes	Yes	0	4	4
TBM-3	Yes	Yes	No	Yes	Yes	0	4	4
TBM-4	No	No	No	No	No	0	0	0

Overall score: 4 (Calculated post-competition)

Overall score is calculated as the best of the three scores obtained in TBM-1, TBM-3 and TBM-4 as mention in the Rulebook (Page 84: *The best performance will be the one considered for the final FBM ranking*).

Score is SCORE=2.5*CI+CC. where CI is correctly identified buoys (via black number) and CC is correctly classified buoys (without the detection of the black number).

Fausto Ferreira

Referee signature (overall score calculation): _____

Date: 21/11/2017

FBM 3: Object Detection (Sea)

Team name: OUBOT

FBM-3 is calculated from the marine data collected from the best of the following challenges:

- **TBM-1: (Air + Land +Sea) The Grand Challenge**
- **TBM-3: (Sea + Air) Pipe inspection and search for missing workers**
- **TBM-4: (Land + Sea) Stem the leak**

Referee I (FBM-3 overall score calculation): 0

Referee II (FBM-3 overall score calculation): 0

Provided data

Map file in appropriate format (sonar, schematic, visual)	<input type="checkbox"/>
Sonar detection images:	<input type="checkbox"/>
Optical detection images:	<input type="checkbox"/>
Navigation log	<input checked="" type="checkbox"/>

Note: Not all data is necessarily needed to evaluate the FBM. E.g. either optical or sonar detections can be considered, no need for both.

Object to be detected	Buoy 1	Buoy 2	Buoy 3	Buoy 4	Buoy 5	CI	CC	Score
TBM-1	No	No	No	No	No	0	0	0
TBM-3	No	No	No	No	No	0	0	0
TBM-4	No	No	No	No	No	0	0	0

Overall score: 0 (Calculated post-competition)

Overall score is calculated as the best of the three scores obtained in TBM-1, TBM-3 and TBM-4 as mention in the Rulebook (Page 84: *The best performance will be the one considered for the final FBM ranking*).

Score is SCORE=2.5*CI+CC. where CI is correctly identified buoys (via black number) and CC is correctly classified buoys (without the detection of the black number).

Fausto Ferreira

Referee signature (overall score calculation): _____

Date: 21/11/2017

FBM 3: Object Detection (Sea)

Team name: Robdos

FBM-3 is calculated from the marine data collected from the best of the following challenges:

- **TBM-1: (Air + Land +Sea) The Grand Challenge**
- **TBM-3: (Sea + Air) Pipe inspection and search for missing workers**
- **TBM-4: (Land + Sea) Stem the leak**

Referee I (FBM-3 overall score calculation): 0

Referee II (FBM-3 overall score calculation): 0

Provided data

Map file in appropriate format (sonar, schematic, visual)	<input type="checkbox"/>
Sonar detection images:	<input type="checkbox"/>
Optical detection images:	<input type="checkbox"/>
Navigation log	<input checked="" type="checkbox"/>

Note: Not all data is necessarily needed to evaluate the FBM. E.g. either optical or sonar detections can be considered, no need for both.

Object to be detected	Buoy 1	Buoy 2	Buoy 3	Buoy 4	Buoy 5	CI	CC	Score
TBM-1	No	No	No	No	No	0	0	0
TBM-3	No	No	No	No	No	0	0	0
TBM-4	No	No	No	No	No	0	0	0

Overall score: 0 (Calculated post-competition)

Overall score is calculated as the best of the three scores obtained in TBM-1, TBM-3 and TBM-4 as mention in the Rulebook (Page 84: *The best performance will be the one considered for the final FBM ranking*).

Score is SCORE=2.5*CI+CC. where CI is correctly identified buoys (via black number) and CC is correctly classified buoys (without the detection of the black number).

Fausto Ferreira

Referee signature (overall score calculation): _____

Date: 21/11/2017

FBM 3: Object Detection (Sea)

Team name: Tuscany Robotics Team

FBM-3 is calculated from the marine data collected from the best of the following challenges:

- **TBM-1: (Air + Land +Sea) The Grand Challenge**
- **TBM-3: (Sea + Air) Pipe inspection and search for missing workers**
- **TBM-4: (Land + Sea) Stem the leak**

Referee I (FBM-3 overall score calculation): 2

Referee II (FBM-3 overall score calculation): 2

Provided data

Map file in appropriate format (sonar, schematic, visual)	<input checked="" type="checkbox"/>
Sonar detection images:	<input checked="" type="checkbox"/>
Optical detection images:	<input type="checkbox"/>
Navigation log	<input checked="" type="checkbox"/>

Note: Not all data is necessarily needed to evaluate the FBM. E.g. either optical or sonar detections can be considered, no need for both.

Object to be detected	Buoy 1	Buoy 2	Buoy 3	Buoy 4	Buoy 5	CI	CC	Score
TBM-1	No	No	Yes	No	Yes	0	2	2
TBM-3	No	No	Yes	No	Yes	0	2	2
TBM-4	No	No	No	No	No	0	0	0

Overall score: 4 (Calculated post-competition)

Overall score is calculated as the best of the three scores obtained in TBM-1, TBM-3 and TBM-4 as mention in the Rulebook (Page 84: *The best performance will be the one considered for the final FBM ranking*).

Score is SCORE=2.5*CI+CC. where CI is correctly identified buoys (via black number) and CC is correctly classified buoys (without the detection of the black number).

Fausto Ferreira

Referee signature (overall score calculation): _____

Date: 21/11/2017