### Title of Session:
Artificial Intelligence for autonomous navigation and robotics

### Name, Title and Affiliation of Chair:
Dr Samia Ainouz, Associate Professor, LITIS, INSA Rouen-Normandie  
Prof. Laurent Vercouter, Full Professor, LITIS, INSA Rouen-Normandie

### Details of Session (including aim and scope):
This session proposal focuses on the need to implement autonomous navigation mechanisms in the context of unmanned vehicles or robotics. Autonomous navigation raises several scientific challenges from scene perception to autonomous decision making. Recent researches focus on artificial intelligence techniques to offer efficient solutions at different stages.

We invite for this session articles proposing new contributions in artificial intelligence applied to autonomous navigation. The session topics include:

- perception
- multimodal sensor fusion
- computer vision
- visual SLAM
- path planning
- multi-agent planning
- multi-agent decision making
- machine learning
- reinforcement learning

Contributing researches of the submitted papers should be applied to autonomous navigation.

### Main Contributing Researchers / Research Centres (tentative, if known at this stage):
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<th>Email &amp; Contact Details:</th>
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<tbody>
<tr>
<td><a href="mailto:samia.ainouz@insa-rouen.fr">samia.ainouz@insa-rouen.fr</a></td>
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