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# Directed Sonar Sensing For Mobile Robot Navigation

**directed sonar sensing for mobile robot navigation** - directed sonar sensing for mobile robot navigation john j. leonard sea grant college program massachusetts institute of technology room e38-308 292 main street  
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**biomimetic echolocation with application to radar and ...** - 3 autonomous guidance and control via radar and sonar sensing is a highly sought-after capability with an enormous range of applications. for example, increasing traffic  
**sonar sensin 21. sonar sensing g - springer** - sonar sensing g sonar or ultrasonic sensing uses propagation of acoustic energy at higher frequencies than normal hearing to extract information from the environment. this chapter presents the fundamentals and physics of sonar sensing for object localization, landmark measurement and classification in robotics applications. the source of sonar artifacts is explained and how they can be ...  
**robot motion planning on -dimensional star worlds among ...** - doors are not identified by any single set of sonar data from a fixed position, but from a series of data collected from a minimum of four different positions. with this methodology, door identification does not require a diffuse environment with perfect sonar returns, but is made possible by the fact that there is specularity in the environment. the long specular returns in the absence of ...  
**usage of parallax ultrasonic sensors in distance measurements** - sonar sensors transmitter sends out a short pulse within a specific direction. when the pulse hits an object, which does not absorb the pulse, it bounces back, after which the echo can be picked ...  
**preface introduction p. 1 the oxford project and the gec ...** - sonar directed planning p. 37 low cost range sensors for reactive planning p. 61 optical triangulation range sensors p. 85 modular sonar sensing for vehicle navigation p. 107 architectures and algorithms for 3-d vision p. 125 range image feature extraction and representation p. 141 introduction to path planning p. 165 path planning for the agv p. 183 task planning p. 205 modelling p. 227 ...  
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**remote sensing in underwater archaeology: simulation of ...** - remote sensing in underwater archaeology: simulation of side scan sonar images using ray tracing techniques vanessa s. blake (heriot-watt university, dept of computing and electrical engineering, edinburgh, scotland, eh 14 4as, uk)  
**slam using odometry and advanced sonar - semantic scholar** - i. kleeman, "advanced sonar and odometry error modeling for simultaneous localisation and map building" proceedings of the ieeersj international conference on ...  
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**the case for cognition and radar sensing - nato** - the case for cognition and radar sensing . c.j. baker and g.e. smith . the ohio state university . columbus, ohio . usa . abstract . cognition means 'knowing' and is the process by which we, as humans, come know about the world. however, in human beings this process is extremely complicated and although aspects of cognition are well understood there is far more to be learnt than is known ...  
**model-based sonar localization for mobile robots** - to complement the sensing, there is a variety of reactive planning [14], path planning [11], task planning [21], and world modelling [24] work. the overall approach of the project is eclectic, but  
**autonomous systems - ulisboa** - autonomous systems maria isabel ribeiro pedro lima with revisions introduced by rodrigo ventura instituto superior técnico/instituto de sistemas e robótica

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