

What is rfusion?

RFusion builds on past work in robotic grasping and RFID localization, and is the first to enable grasping occluded objects using a fully-integrated RF-visual sensing robot. (a) Vision-based Robotic Grasping.

How does rfusion work?

Recall from g8.3 that the grasping network uses the target item's location as an attention mechanism. Moreover, because the antenna can estimate its distance to the RFID, it can determine when it has picked up the target item. Hence, RFusion makes successive grasping attempts until it determines that the target object has been picked up.

What can rfusion do for You?

Rfusion has the experience, connections and products to bring your vision to life- on schedule and on budget. If you have a problem that no one else has been able to solve please contact us here, RFusion can help. We provide empathy to your requirements and sound engineering.

Does rfusion improve the traveled distance?

This shows that RFusion improves the traveled distance by a median of 25% over the baseline. The 90th percentile traveled distance of RFusion and the baseline is 1.8 m and 2.45 m respectively. This shows that RFusion not only improves the median but also the 90th percentile by 36%.

Does rfusion optimize Trav-ELED distance for localization and grasping?

Recall from g4.2 that RFusion's controller optimizes the robot's traveled distance for localization and grasping. Our second experiment evaluated the distance traveled by RFusion's gripper and compared it to a baseline and to partial implementations of RFusion.

Why is rfusion a problem?

The key challenge in designing RFusion arises from the uncertainty about the target object's location and the environment. In particular, since the target object may be hidden or outside the camera's field of view, the robot can not visually perceive it.

SenSys'21, November 15-17, 2021, Coimbra, Portugal Tara Boroushaki, Isaac Perper, Mergen Nachin, Alberto Rodriguez, Fadel Adib $t = 0$ RF-Visual Control $t = N$ Candidate Locations a) Geometric Fusion b) Narrowing Candidate Locations c) Grasping Grasped Item Figure 2: RF-Visual Sensor Fusion, Control, and Grasping.

Decreasing the use of fossil fuels is a must, and for decades money has poured in for wind turbines, believing that the wind will never die. Well, it did and is uncontrollable by all of us.



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A cornerstone of the US fusion research program, the DIII-D National Fusion Facility, has accomplished a major achievement. The nuclear fusion facility has completed its 200,000th experimental cycle.

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Rfusion supplies and designs tomorrows, renewable energy, network communications, cognitive observation, network disruption, security products and forward thinking services. Rfusion has the experience, connections and products to bring your vision to life - on schedule and on budget.

IPFN, the Institute for Plasmas and Nuclear Fusion, is in charge of implementing the fusion programme in Portugal. IPFN is a Research Unit of Instituto Superior Tecnico, the science and engineering faculty of the University of Lisbon. With a staff of more than 150, it is also the country's largest physics research unit.

US / California Nuclear Fusion Startup Gets \$900 Million In Series A Funding By David Dalton 28 October 2024 Pacific Fusion says investment contingent on meeting milestones. A startup nuclear fusion development company based in California has secured \$900m (EUR832m) in Series A funding from high tech investors. ...

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Fusion is the world's most advanced 2D and 3D compositing, VR and motion graphics software and its built right into DaVinci Resolve! Featuring a massive toolset with paint, rotoscope, titling, animation, keying, 3D



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particles, support for importing and rendering 3D models, optical flow tools, stereoscopic 3D, retiming and stabilization, third-party Open FX plugin support, and much more.

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To realise fusion, the EUROfusion consortium brings together 4800 researchers, staff and students from its 28 member institutes, 3 associated partners, and 162 affiliated entities from across Europe. Together these researchers have set up ...

(a) shows geometric fusion, combining RF measurements with visual point clouds to identify candidate locations for the target RFID-tagged item. (b) demonstrates how RL-based RF-Visual control narrows down the candidate locations (marked in red).

Web: <https://www.phethulwazi.co.za>

