

### **A solution to perceptual aliasing through probabilistic fuzzy logic and SIFT**

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### **Current velocity estimation using a lateral line probe**

**Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew;** Carbonell Baeza, Ruth; Musall, Mark; **Toming, Gert; Muhammad, Naveed; Kruusmaa, Maarja** Ecological engineering 2015 / p. 296-300 : ill <https://doi.org/10.1016/j.ecoleng.2015.10.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Flow feature extraction for underwater robot localization : preliminary results**

**Muhammad, Naveed;** Strokina, Nataliya; **Toming, Gert; Tuhtan, Jeffrey Andrew;** Kämäräinen, Joni-Kristian; **Kruusmaa, Maarja** 2015 IEEE International Conference on Robotics and Automation (ICRA) : Washington State Convention Center, Seattle, Washington, May 26-30, 2015 2015 / p. 1125-1130 : ill <https://doi.org/10.1109/ICRA.2015.7139317> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Human detection and following by a mobile robot using 3D features**

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### **Human tracking by a mobile robot using 3D features**

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### **Hydrodynamic classification of natural flows using an artificial lateral line and frequency domain features**

**Tuhtan, Jeffrey Andrew;** Strokina, Nataliya; **Toming, Gert; Muhammad, Naveed; Kruusmaa, Maarja;** Kämäräinen, Joni-Kristian E-proceedings of the 36th IAHR World Congress : 28 June - 3 July, 2015, The Hague, the Netherlands 2015 / p. 1-8 : ill

### **Map-based localization and loop-closure detection from a moving underwater platform using flow features**

**Muhammad, Naveed; Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Toming, Gert; Kruusmaa, Maarja;** Musall, Mark Autonomous robots 2019 / p. 1419-1434 : ill <https://doi.org/10.1007/s10514-018-9797-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Potential guided directional-RRT\* for accelerated motion planning in cluttered environments**

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### **Underwater map-based localization using flow features**

**Muhammad, Naveed; Toming, Gert;** Tuhtan, Jeffrey A.; Musall, Mark; **Kruusmaa, Maarja** Autonomous robots 2017 / p. 417-436 : ill <https://doi.org/10.1007/s10514-016-9558-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)