

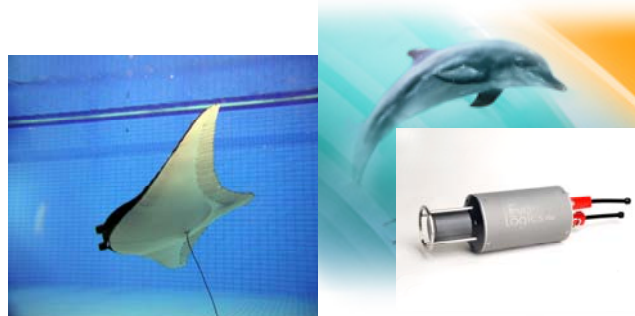
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Expertise:

One-Step-Ahead S2C Modem Technology derived from dolphins: This new technology in underwater (UW) telemetry provides unrivalled performance and reliability under virtually any transmission scenario. We have proven that all over the world. Beyond this expertise we can deliver a number of R&D services like: Design of Fin Ray Effect based actuators; design and construction of noise reduced propulsion systems; design and manufacture of noise and drag reduced wind wheels.

Topics (project idea, fields of interest):

We offer for ICT-project partners the S2C platform for UW information infrastructures. You can benefit from our modem technology and stimulate further developments e.g. for advanced control of UUV´s, combination of digital UW communication, positioning and navigation, development of integrated solutions for multi-sensor applications and/or self-configuring UW networks with stationary and mobile knots etc. Key advantages of the recent devices are:

- Most compact, easy to implement, high-speed digital communication
- Quasi-duplex data transmission, advanced multipath rejection
- Built-in forward error correction and data compression
- Guaranteed data delivery, up to 8 data streams with adjustable priorities
- Delivery of instant messages on top of the ongoing data flow
- UW network features, low energy consumption
- Built-in relative speed and distance measurements
- Tracking while communication possible, USBL module expandable
- Signal integrity and multipath structure diagnostics
- Transparent serial interface with advanced commands set
- OEM option and system integration service
- Design and implementation of complex UW information infrastructures
- Reliable AUW communication and control

Key words:

Underwater telemetry; bionics: biological inspired functionality; High-speed digital communication.