

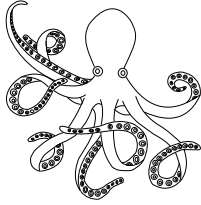
Diving & ROV specialists



Index for document research

**Studies of ROV and AUV concepts
stored in the website database**

March 2024



Diving & ROV Specialists

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Purpose

This compilation details the Studies of Remotely Operated Vehicles (ROV) and Autonomous Underwater Vehicles (AUV) concepts archived in the "Diving and ROV Specialists" website database, accompanied by corresponding download links. Its purpose is to serve as a supplementary resource for research beyond the chronological list and search engine capabilities.

To achieve this objective, the documents are categorized based on their publication dates within the database and arranged under relevant topics:

- Propulsion
- Manipulation and grabbing systems
- Sensing and visualization
- Navigation and localization
- Communication and controlling
- New general design studies

Additional categorizations will be added over time. However, providing search engines and classifications that fully align with researchers' preferences is impractical.

Therefore, it is their responsibility to select the relevant documents using any of the three provided research methods.

Unlike the website's chronological index, this document does not include descriptions of the papers' contents. However, authors and publication dates are available, allowing readers to locate them in chronological lists.

This list was updated on the 15th of march 2024. So that the scientific papers listed in this update do not include those newly added to the database in May 2024. However, the complete lists of new documents for each main topic are indicated on the website's homepage. Please use the provided links to download the desired documents from the chronological list.

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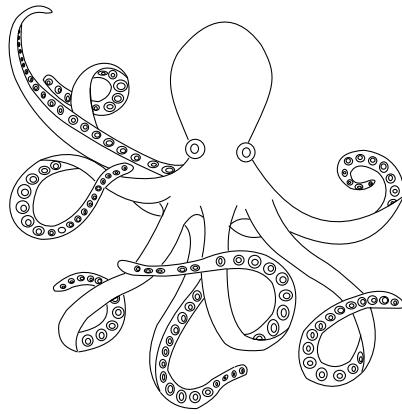
This document is in PDF (Portable Document Format), and some PDF readers have a built-in search engine that enables you to find documents based on keywords.

There are many PDF programs available today, and testing them all would take a significant amount of time. However, the four freeware below include the mentioned search engine:

- WPS Office (<https://www.wps.com/>) - works on Windows, Mac OS, and Linux
- PDF X Change Viewer (<https://pdf-xchange.eu/pdf-xchange-editor/index.htm>) - Works on Windows and Mac OS.
- Foxit Reader (<https://www.foxit.com/pdf-reader/>) - Works on Windows, Linux , and Mac OS
- Adobe Acrobat Reader (<https://get.adobe.com/reader/>) - Works on Windows and Mac Os.



Propulsion

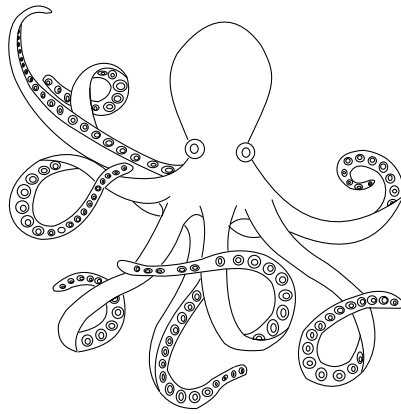


<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Analysis of the swimming of long and narrow animals.	Sir Geoffrey Taylor	1952
Swimming of a waving plate	Yao-tsu wu	1960
The mechanics of labriform locomotion - An analysis of the recovery stroke and the overall fin beat cycle's propulsive efficiency in the angelfish	R. W. Blake	1979
Propulsion System Performance Enhancements on REMUS AUVs	Ben Allen, William S. Vorus, Timothy Presterio	2000
Swimming Motion Control for Biometric Fish Robot by Utilizing Turning, Coefficient	Yoong Hou Pin, Lin Boon Hoe, Kenneth Teo Tze Kin, Ismail Saad	2011
Thruster Modelling for Underwater Vehicle Using System Identification Method	Mohd Shahrieel Mohd Aras, Shahrum Shah Abdullah, Azhan Ab. Rahman, Muhammad Azhar Abd Aziz	2013
Undulating fins produce off-axis thrust and flow structures	Zaak D. Neveln, Rahul Bale ² , Amneet Pal Singh Bhalla, Oscar M. Curet, Neelesh A. Patankar, and Malcolm A. MacIver.	2013
Multibody system dynamics for bio-inspired locomotion: from geometric structures to computational aspects	Frédéric Boyer, Mathieu Porez	2014
Improved Lighthill fish swimming model for bio-inspired robots - Modeling, computational aspects, and experimental comparisons.	Mathieu Porez, Frederic Boyer, & Auke Ijspeert	2014
Modeling cephalopod-inspired pulsed-jet Locomotion for Underwater Soft Robots	F. Renda, F. Giorgio-Serchi, F. Boyer, & C. Laschi	2015
Phototactic guidance of a tissue-engineered soft-robotic ray	Sung-Jin Park, Mattia Gazzola, Kyung Soo Park, Shirley Park, Valentina Di Santo, Erin L. Blevins, Johan U. Lind, Patrick H. Campbell, Stephanie Dauth, Andrew K. Capulli, Francesco S. Pasqualini, Seungkuk Ahn, Alexander Cho, Hongyan Yuan, Ben M. Maoz, Ragu Vijaykumar, Jeong-Woo Choi, Karl Deisseroth, George V. Lauder, L. Mahadevan, Kevin Kit Parker.	2016
Design and Control of Underwater Robots with Rotating Thrusters	Ali Jebelli, M. C.E. Yagoub, B. S. Dhillon	2016
Fast-moving, soft, electronic fish	Tiefeng Li, Guorui Li, Yiming Liang, Tingyu Cheng, Jing Dai, Xuxu Yang, Bangyuan Liu, Zedong Zeng, Zhilong Huang, Yingwu Luo, Tao Xie, and Wei Yang	2017
Motion Control of a Hovering Biomimetic Four-Fin Underwater Robot	Taavi Salumäe, Ahmed Chemori, Maarja Kruusmaa	2018

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Uncertainty Assessment and Self-Propulsion Estimation of the Duisburg Test Case	Ali Dogrul, Yavuz Hakan Ozdemir, Savas Sezen, Baris Barlas	2018
Experimental Investigation of Locomotion Efficiency and Path-Following for Underwater Snake Robots with and without a Caudal Fin	E. Kelasidi, A. M. Kohl, K. Y. Pettersen, B. H. Hoffmann, J. T. Gravdahl	2018
Dynamic Modeling of a Wave Glider with Optimal Wing Structure	Jiawang Chen, Yongqiang Ge, Chaoling Yao, and Binghuan Zheng	2018
An electrical power control system for explorer-class remotely operated underwater vehicle (ROV)	Muhammad Ikhsan Sani, Simon Siregar, Muhammad Muchlis Kurnia, Dzikri Hasbialloh.	2019
Tuna Robotics: A high-frequency experimental platform exploring the performance space of swimming fishes	J. Zhu, C. White, D. K. Wainwright, V. Di Santo, G. V. Lauder, H. Bart-Smith	2019
ROV Thruster Testing Document - Individual	Published by Arobot	2019
Jellyfish-Inspired Soft Robot Driven by Fluid Electrode Dielectric Organic Robotic Actuators	Caleb Christianson, Christopher Bayag, Guorui Li, Saurabh Jadhav, Ayush Giri, Chibuike Agba, Tiefeng Li, and Michael T. Tolley	2019
The Analysis of Biomimetic Caudal Fin Propulsion Mechanism with CFD	Guijie Liu, Shuikuan Liu, Yingchun Xie, Dingxin Leng, and Guanghao Li	2020
Analysis of The Impact of Different Angles of Thrusters in Underwater Vehicles on Thrust Force in CAD Environment	Talha Gülgün, Göksel Alankaya, Muhammet Emin Duran, Mertcan Erdogdu, Ismail Yalçınkaya, Akif Durdu, Hakan Terzioglu.	2020
Solar powered ROV electric propulsion and control	M. A. Malleswari, B. Venkata Rao, K. Narasimha Rao	2021
Thrust force evaluation for a ROV (Remont Operating Vehicle) propeller	A Sabau	2021
Design, Performance Evaluation and Field Test of a Water Jet Tool for ROV Trencher	Ji-Hong Li, Mun-Jik Lee, Hyunjoo Kang, Min-Gyu Kim, & Gun Rae Cho.	2021
Four propellers submarine drone modelling in a real environment	Mohamed Moustanir, Karim Benkirane, Adil Sayouti, Hicham Medromi	2021
Parameter optimization of unmanned surface vessel propulsion motor based on BAS-PSO	Li Bian, Xiangqian Che, Liu Chengyang, Dai Jiageng, and He Hui.	2021
Prototyping of a Novel Thruster for Underwater ROVs.	Gokhan Atali	2022
Designs, motion mechanism, motion coordination, and communication of bionic robot fishes: a survey.	Zhiwei Yu, Kai Li, Yu Ji, Simon X. Yang	2022
Review of Crucial Problems of Underwater Wireless Power Transmission	Le Yu, Han Sun, Shangwei Su, Huixuan Tang, Hao Sun, and Xiaoyu Zhang	2022
Research on non-contact wet mateable connector for optical communication and power transmission	Zhiyong Duan, Yurui Zhang, Jiaqi Hu, Bohao He, and Canjun Yang	2023

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Numerical Study of Different Engineering Conditions on the Propulsive Performance of the Bionic Jellyfish Robot	Qiyun Cheng, Wenyuan Mo, Long Chen, Wei Ke, Jun Hu, and Yuwei Wu.	2023
Numerical Simulation of the Hydrodynamic Performance and Self-Propulsion of a UUV near the Seabed	Xiaodong Liu, Yuli Hu, Zhaoyong Mao, and Wenlong Tian	2023
Underwater Undulating Propulsion Biomimetic Robots: A Review	Gongbo Li , Guijie Liu, Dingxin Leng, Xin Fang, Guanghao Li, & Wenqian Wang.	2023

Manipulation and grabbing systems



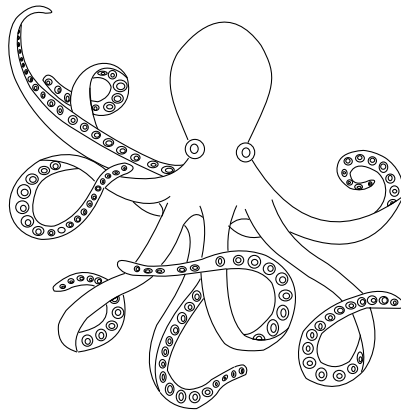
<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Experiments in the Coordination of Underwater Manipulator and Vehicle Control	Timothy W. McLain, Stephen M. Rock	1995
Experiments in the Coordinated Control of an Underwater Arm/Vehicle System	Timothy W. McLain, Stephen M. Rock. Michael J. Lee	1996
Development of a controllable grab system for deep water recovery	D.I Mearns, A.R.F. Hudson.	2000
For safe and compliant interaction: an outlook of soft underwater manipulators	Zhenhua Wang. & Weicheng Cui	2000
Control of Underwater Manipulators Mounted on nn ROV Using Base Force Information	Jee-Hwan Ryu & Dong-Soo Kwon	2001
Innovative new ROV technology utilizing water hydraulics	G. Haugen, F. Conrad, M. Grahl-Madsen	2005
Realtime Motion Compensation for ROV-based Tele-operated Underwater Manipulators	Marc Hildebrand, Leif Christensen, Jochen Kerdels, Jan Albiez & Frank Kirchner	2010
Modeling and Control of ROV Manipulator	Morten Haugen	2012
Stick tight: suction adhesion on irregular surfaces in the northern clingfish	Dylan K. Wainwright, Thomas., Kleinteich, Stanislav N. Sorry, and Adam P. Summers	2013
The Morphology and Adhesion Mechanisms of Octopus vulgaris Suckers	Francesca Tramacere, Lucia Beccai, Michael Kuba, Alessandro Gozzi, Angelo Bifone, Barbara Mazzolai	2013
Attachment to challenging substrates – fouling, roughness, and limits of adhesion in the northern clingfish (<i>Gobiesox maeandricus</i>)	Petra Ditsche, Dylan K.) Wainwright and Adam P. Summers	2013
Structure and mechanical properties of Octopus vulgaris suckers	Francesca Tramacere, Alexander Kovalev, Thomas Kleinteich, Stanislav N. Gorb and Barbara Mazzolai	2013
Hairy suckers: the surface microstructure and its possible functional significance in the Octopus vulgaris sucker	Francesca Tramacere, Esther Appel, Barbara Mazzolai, and Stanislav N. Gorb	2014
Unveiling the morphology of the acetabulum in octopus suckers and its role in attachment	Francesca Tramacere, Nicola M. Pugno, Michael J. Kuba and Barbara Mazzolai	2015
Underwater Robotics: Surface Cleaning Technics, Adhesion and Locomotion Systems	Authors:Houssam Albitar, Kinan Dandan, Anani Ananiev, and Ivan Kalaykov	2015

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Octopus-inspired Multi-arm Robotic Swimming	M Sfakiotakis, A Kazakidi, and D P Tsakiris	2015
The suction pad attachment is enhanced by spinule friction	Michael Beckert, Brooke E. Flammang and Jason H. Nadler	2015
Closing the gap between industrial robots and underwater manipulators.	Satja Sivcev, Joseph Coleman, David Adley, Gerard Dooly, Edin Omerdic, Daniel Toal	2015
Soft Robotic Grippers for Biological Sampling on Deep Reefs	Kevin C. Galloway, Kaitlyn P. Becker, Brennan Phillips, Jordan Kirby, Stephen Licht, Dan Tchernov, Robert J. Wood and David F. Gruber	2016
A new redundancy resolution for underwater vehicle–manipulator system considering payload	Yaoyao Wang, Surong Jiang, Fei Yan, Linyi Gu, and Bai Chen	2017
A biorobotic adhesive disc for underwater hitchhiking inspired by the remora suckerfish	Yueping Wang, Xingbang Yang, Yufeng Chen, Dylan K. Wainwright, Christopher P. Kenaley, Zheyuan Gong, Zemin Liu, Huan Liu, Juan Guan, Tianmiao Wang, James C. Weaver, Robert J. Wood, Li Wen	2017
Fully automatic visual servoing control for work-class marine intervention ROVs	Satja Sivcev, Matija Rossi, Joseph Coleman, Gerard Dooly, Edin Omerdic, Daniel Toal	2018
Underwater manipulators: A review	Satja Sivcev, Joseph Coleman, Edin Omerdic, Gerard Dooly, Daniel Toal	2018
An Opposite-Bending-and-Extension Soft Robotic Manipulator for Delicate Grasping in Shallow Water	Zheyuan Gong, Bohan Chen, Jiaqi Liu, Xi Fang, Zemin Liu, Tianmiao Wang, and Li Wen	2019
Strong Wet and Dry Adhesion through Cupped Microstructures	Yue Wang, Victor Kang, Eduard Arzt, Walter Federle, and Rene Hense	2019
Trends and challenges in robot manipulation	Aude Billard, and Danica Kragic	2019
Learning from Northern clingfish (<i>Gobiesox maeandricus</i>): bioinspired suction cups attach to rough surfaces	Petra Ditsche, and Adam Summers	2019
Ultra-gentle manipulation of delicate structures using a soft robotic gripper	Nina R. Sinatra, Clark B. Teeple, Daniel M. Vogt, Kevin, Kit Parker, David F. Gruber, Robert J. Wood	2019
Hands in the Real World	Francesca Negrello, Hannah S. Stuart and Manuel G. Catalano	2020
Switchable Underwater Adhesion by Deformable Cupped Microstructures	Yue Wang, Victor Kang, Walter Federle, Eduard Arzt, and René Hensel	2020

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
A soft manipulator for efficient and delicate grasping in shallow water: Modeling, Control, and real-world experiments	Zheyuan Gong, Xi Fang, Xingyu Chen, Jiahui Cheng, Zhexin Xie, Jiaqi Liu, Bohan Chen, Hui Yang, Shihan Kong, Yufei Hao, Tian miao Wang, Junzhi, Yu, and Li Wen	2020
Eye Gaze Map as an Efficient State Encoder for Underwater Task Automation	Wenjun Xu, Jianfeng Wei, Renyou Yang, Aidong Zhan	2020
Simulation and Experimental Study on Deformation Characteristics of the Water Hydraulic Flexible Actuator Used for the Underwater Gripper	Authors: Songlin Nie, Xiaopeng Liu, Hui Ji, Zonghai Ma, & Fanglong Yin	2020
Vision Positioning-Based Estimation Method and Its Simulation Studies on State of Underwater Manipulator	Junli Wang, Shitong Wang, and Wenhao Leng	2021
Soft Origami Optical Sensing Actuator for Underwater Manipulation	Zhong Shen, Yafei Zhao, Hua Zhong, Kailuan Tang, Yishan Chen, Yin Xiao, Juan Yi, Sicong Liu, and Zheng Wang	2021
Application of Adaptive and Switching Control for Contact Maintenance of a Robotic Vehicle-Manipulator System for Underwater Asset Inspection	Kamil Cetin, Carlos Suarez Zapico, Harun Tugal, Yvan Petillot, Matthew Dunnigan, & Mustafa Suphi Erden	2021
Applications of Bio-inspired Reversible Dry and Wet Adhesives: A Review	Minsu Kang, Kahyun Sun, Minho Seong, Insol Hwang, Hyejin Jang, Seongjin Park, Geonjun Choi, Sang-06, Jaeil Kim and Hoon Eui Jeong	2021
Bioinspired Underwater Adhesion to Rough Substrates through Cavity Collapse of Cupped Microstructures	Yue Wang, and René Hense	2021
A Method for Supervisory Control of Manipulator of Underwater Vehicle	Alexander Konoplin, Vladimir Filaretov, Alexander Yurmanov.	2021
Rigid-Soft Interactive Design of a Lobster-Inspired Finger Surface for Enhanced Grasping Underwater	Haiyang Jiang, Xudong Han, Yonglin Jing, Ning Guo, Fang Wan, and Chaoyang Song	2021
Marine Robotics for Deep-Sea Specimen Collection: A Systematic Review of Underwater Grippers	Angela Mazzeo, Jacopo Aguzzi, Marcello Calisti, Simonepietro Canese, Fabrizio Vecchi, Sergio Stefanni, and Marco Controzzi	2022
Glowing Sucker Octopus (<i>Stauroteuthis syrtensis</i>)-Inspired Soft Robotic Gripper for Underwater Self-Adaptive Grasping and Sensing	Samuel M. Youssef, MennaAllah,, Mahmood A. Saleh, Mostafa A. Mousa, Mahmoud Elsamanty, and Ahmed G. Radwan	2022
An Underwater Robotic Manipulator with Soft Bladders and Compact Depth-Independent Actuation	Zhong Shen, Hua Zhong, Erchao Xu, Runzhi Zhang, Ki Chun Yip, Lawrence Long Chan, Leo Lai Chan, Jia Pan, Wenping Wang, and Zheng Wang	2022
Octopus-inspired adhesive skins for intelligent and rapidly switchable underwater adhesion	Sean T. Frey, A. B. M. Tahidul Haque, Ravi Tutika,Elizabeth V. Krotz, Chanhong Lee, Cole B. Haverkamp, Eric J. Markvicka , Michael D. Bartlett	2022
Soft Gripper Design and Fabrication for Underwater Grasping	David Herrero-Pérez, Humberto Martínez-Barberá	2022
Deep-sea freezer	Authors: Shinsuke Kawagucci, Yohei Matsui, Hidetaka Nomaki, and Chong Chen	2023

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Development and Control of an Innovative Underwater Vehicle Manipulator System	Xinhui Zheng, Qiyao Tian, and Qifeng Zhang	2023
Recent progress on underwater soft robots: adhesion, grabbing, actuating, and sensing	Yeming Zhang, Demin Kong, Yan Shi, Maolin Cai, Qihui Yu, Shuping Li, Kai Wang, & Chuangchuang Liu	2023

Sensing and visualization



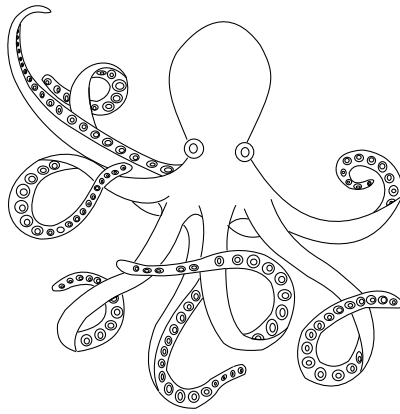
<i>Title</i>	<i>Authors</i>	<i>Published</i>
Robust real-time detection of an underwater pipeline	Primo Zingaretti, Silvia Maria Zan	1997
Fault detection of actuator faults in unmanned underwater vehicles	A. Alessandri, M. Caccia, & G. Veruggio	1997
An ROV Stereovision System for Ship Hull Inspection	Shahriar Negahdaripour, & Pezhman Firoozfam	2005
Robotics Vision-based Heuristic Reasoning for Underwater Target Tracking and Navigation	Chua Kia & Mohd Rizal Arshad	2005
Vision-based ROV horizontal motion control: Near-seafloor experimental results	M. Caccia	2006
Multi-physics model of an electric fish-like robot: numerical aspects and application to obstacle avoidance	Mathieu Porez, Vincent Lebastard, Auke Jan Ijspeert, Frederic Bo	2011
Dangerous Inspection & Versatile Exploration Robot (DIVER): Tracking, Monitoring and Assisting Human Divers in Commercial, environmental and Military Applications	Authors: Jillian Chalke, Paul O'Brien, Christopher Conley, Victor Puksta, Mustapha S. Fofana	2013
Simulating underwater depth environment condition using lighting system design	Mohd Shahrieel Mohd Aras, Fadilah Abdul Azis, Syed Mohamad Shazali Syed Abdul Hamid, Saiful Edwend Daswir, Fara Ashikin Ali.	2015
Artificial fish skin of self-powered micro-electromechanical systems hair Cells for sensing hydrodynamic flow phenomena	Mohsen Asadnia, Ajay Giri Prakash Kottapalli, Jianmin Miao, Majid Ebrahimi Warkiani, and Michael S. Triantafyll	2015
Towards omnidirectional immersion for ROV teleoperation.	Josep Bosch, Pere Ridao, Rafael Garcia and Nuno Gracias	2016
A Review of Artificial Lateral Line in Sensor Fabrication and Bionic Applications for Robot Fish	Guijie Liu, Anyi Wang, Xinbao Wang, and Peng Liu	2016
Development of a Flexible Artificial Lateral Line Canal System for Hydrodynamic Pressure Detection	Yonggang Jiang, Zhiqiang Ma, Jianchao Fu, and Deyuan Zhang	2017
Broadband achromatic optical metasurface devices	Shuming Wang, Pin Chieh Wu, Vin-Cent Su, Yi-Chieh Lai, Cheng Hung Chu, Jia-Wern Chen, Shen-Hung Lu, Ji Chen, Beibei Xu, Chieh-Hsiung Kuan, Tao Li, Shining Zhu, and Din Ping Tsai.	2017
A New Remotely Operated Sensor Platform for Interdisciplinary Observations under Sea Ice	Christian Katlein, Martin Schiller, Hans J. Belter, Veronica Coppolaro, David Wenslandt, and Marcel Nicolaus	2017
Analysis of integrated sensor for unmanned underwater vehicle application	Mohd Shahrieel Mohd Aras, Muhammad Nizam Kamarudin, Iktisyam Zainal, Mohd Khairi Mohd Zambri & Marizan Sulaiman	2017

<i>Title</i>	<i>Authors</i>	<i>Published</i>
Collision Detection for Underwater ROV Manipulator Systems	Satja Sivčev, Matija Rossi, Joseph Coleman, Edin Omerdić, Gerard Dooly, & Daniel T	2018
Bidirectional biomimetic flow sensing with antiparallel and curved artificial hair sensors	Claudio Abels, Antonio Quattieri, Toni Lober, Alessandro Mariotti, Lily D. Chambers, Massimo De Vittorio, William M. Megill and Francesco Rizzi	2019
Path Following, Obstacle Detection and Obstacle Avoidance for Thrusted Underwater Snake Robots	Date of publication: 2019 Authors: Eleni Kelasidi, Signe Moe, Kristin Y. Pettersen, Anna m. Kohl, Pål Liljebäck, & Jan Tommy Gravdahl.	2019
Next-Generation Optical Sensing Technologies for Exploring Ocean Worlds-NASA FluidCam, MiDAR, and NeMO-Net	Ved Chirayath, Alan Li	2019
The Application of ROV (Remotely Operated Vehicle) of the Microcontroller Submarine as a Tool to Take Sample of Water and Soil Contaminated by Waste	Muhammad Syukron, Nuralif Mardiyah, Wahono, Ahmad Rosikhin, & Zamah Sari	2019
Enhanced flow sensing with interfacial microstructures	Yonggang Jiang, Peng Zhao, Zhiqiang Ma, Dawei Shen, Gongchao Liu, Deyuan Zhang	2020
Development and application of a temperature gradient detector for manned underwater robot	Dewei Li, Ye Li, Zhongjun Ding, Xiangxin Wang, & Baohua Liu	2020
Target tracking control of underactuated autonomous underwater vehicle based on adaptive nonsingular terminal sliding mode control	Jian Cao, Yushan Sun, Guocheng Zhang, Wenlong Jiao, Xiangbin Wang, and Zhaohang Liu.	2020
Underwater No-Reference Image Quality Assessment for Display Module of ROV	Di Wu, Fei Yuan, & En Cheng	2020
Remote Vessel Inspections with an ROV using Livestreaming	Michael Stein, Henri Parviainen	2020
Fusing ROV-based photogrammetric underwater imagery with multibeam soundings for reconstructing wrecks in turbid waters	Date of publication: 2020 Authors: Robin Rofallski, Patrick Westfield, Jean-Guy Nistad, Annette Buttner & Thomas Luhmann	2020
Underwater Acoustic Source Localization via Kernel Extreme Learning Machine	Authors: Zhengliang Hu, Jinxing Huang, Pan Xu, Mingxing Nan, Kang Lou, and Guangming Li	2021
Fish Lateral Line-Inspired Flow Sensors and Flow-Aided Control: A Review	Yufan Zhai, Xingwen Zheng, Guangming Xie	2021
Offshore inspection mission modelling for an ASV/ROV system	Chenyu Zhao, Philipp R Thies, Lars Johanning	2021
Investigation of the Spatio-Temporal Behaviour of Submarine Groundwater Discharge Using a Low-Cost Multi-Sensor-Platform	Christoph Tholen, Iain Parnum, Robin Rofallski, Lars Nolle, & Oliver Zielinski	2021

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Development of the autonomous underwater noise recorder	Donatas Bagocius, Aleksas Naršcius	2021
Mobile robot 3D trajectory estimation on a multilevel surface with multimodal fusion of 2D camera features and a 3D light detection and ranging point cloud	Vinicio Rosas-Cervantes, Quoc-Dong hoang, Sooho Woo, and Soon-Geul Lee.	2021
Stereo Vision System for Vision-Based Control of Inspection-Class ROVs	Date of publication: 2021 Authors: Stanisław Hozyn & Bogdan Zak	2021
A Laser Vision System for Relative 3-D Posture Estimation of an Underwater Vehicle with Hemispherical Optics	Josep Bosch, Pere Ridao, Rafael Garcia and Nuno Gracias	2021
Autonomous Underwater Vehicle in Internet of Underwater Things: A Survey	Chinonso Okereke, Nur Haliza Abdul Wahab, Mohd Murtadha Mohamad, & S H Zaleha.	2021
Dynamic Detection Based Trajectory Planning for Autonomous Underwater Vehicle to Collect Data From Underwater Sensors	Mingyue Cheng, Quansheng Guan, Fei Ji, Julian Cheng, & Yankun Chen	2022
Towards omnidirectional immersion for ROV teleoperation.	Authors: Josep Bosch, Pere Ridao, Rafael Garcia and Nuno Gracias	2022
Marine Robotics for Deep-Sea Specimen Collection: A Systematic Review of Underwater Grippers	Angela Mazzeo, Jacopo Aguzzi, Marcello Calisti, Simonepietro Canese, Fabrizio Vecchi, Sergio Stefanni, and Marco Controzzi	2022
Soft Multi-Directional Force Sensor for Underwater Robotic Application	Rafsan Al Shafatul Islam Subad, Md Mahmud Hasan Saikot, and Kihan Park	2022
A Novel Bio-Inspired Path Planning for Autonomous Underwater Vehicle for Search and Tracing of Underwater Target	Adnan Elahi Khan Khalil, Shahzad Anwar, Ghassan Husnain. Atif Elahi, & Zhang Dong.	2022
A review of underwater acoustic metamaterials for underwater acoustic equipment.	Zhenjing Zhu, Ning Hu, Junyi Wu, Wenxin Li, Jiabao Zhao, Maofa Wang, Fanzong Zeng, Huajie Dai, and Yongju Zheng	2022
Review of Localization and Clustering in USV and AUV for Underwater Wireless Sensor Networks	Kaveripakam Sathish, Ravikumar Chinthaginjala Venkata, Rajesh Anbazhagan, & Giovanni Pau	2023
Vision-based underwater target real-time detection for autonomous underwater vehicle subsea exploration	Authors: Gaofei Xu, Daoxian Zhou, Libiao Yuan, Wei Guo, Zepeng Huang, and Yinlong Zhang	2023
A Distributed Intelligent Buoy System for Tracking Underwater Vehicles	Authors: Mengzhuo Liu, Jifeng Zhu, Xiaohe Pan, Guolin Wang, Jun Liu, Zheng Peng, and Jun-Hong Cui	2023
An Image Enhancement Algorithm for Autonomous Underwater Vehicles: A Novel Approach	Mahfuzul Huda, Kumar Rohit, Bikramjit Sarkar, and Souvik Pal	2023

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Visual-Aided Shared Control of Semi-Autonomous Underwater Vehicle for Efficient Underwater Grasping	Tianlei Wang, Fei Ding and Zhenxing Sun	2023
Biologically inspired virtual aperture extension method for small aperture HFSWR multielement array	Hongbo Li, Aijun Liu, Qiang Yang, Changjun Yu, and Xuguang Yang	2023

Navigation and localization

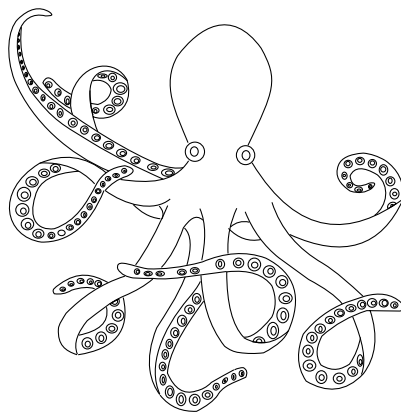


<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
An automatic guidance system for a small work class ROV	G. Conte, S. M. Zanoli, D. Scaradozz	2002
Geometric Methods for Modeling and Control of Free-Swimming Fin-Actuated Underwater Vehicles	Kristi A. Morgansen, Benjamin I. Triplett, and Daniel J. Klein	2008
Particle Filter ROV Navigation using Hydroacoustic Position and Speed Log Measurements	Bo Zhao, Mogens Blanke, Roger Skjetne	2010
Precision Navigation Sensors Facilitate Full Auto Pilot Control of Smart ROV for Ocean Energy Applications	Daniel Toal, Edin Omerdic, Gerard Dooly.	2010
Autonomus underwater navigation	Harris O. Hinnant	2013
Dynamic Positioning of Underwater Robotic Vehicles with Thruster Dynamics Compensation	Wallace M. Bessa, Max S. Dutra, and Edwin Kreuzer	2013
Autonomous Underwater Vehicle Motion Response: A Nonacoustic Tool for Blue Water Navigation	Supun A. T. Randeni, Alexander L. Forrest, Remo Cossu, and Zhi Quan Leong. Peter D. King, Dev Ranmuthugala	2016
A novel localization approach for underwater welding vehicles in spent fuel pools via attitude heading reference system and altimeters	Yang Luo, Jianguo Tao, Hao Sun, Zhuang Hao, Hao Li, Qiang Na, Haibo Gao, Liang Ding, and Zongquan Deng	2017
Improving the localization accuracy of AUVs operating in highly variable environmental conditions	Supun Anuradhitha Tilakeratne Randeni Pathiranachchilag	2017
Prescribed performance adaptive fault-tolerant trajectory tracking control for an ocean bottom flying node	Hongde Qin, Zheyuan Wu, Yanchao Sun, and Yushan Sun	2018
Exploration of underwater life with an acoustically-controlled soft robotic fish	Robert K. Katzschmann, Joseph DelPreto, Robert MacCurdy, Daniela Rus	2018
Underwater navigation using visual markers in the context of intervention missions	Authors: Arturo Gomez Chavez, Christian A Mueller, Tobias Doernbach and Andreas Birk.	2019
Vision based autonomous docking for work class ROVs	Petar Trslic, Matija Rossi, Luke Robinson, Cathal W. O'Donnel, Anthony Weir, Joseph Coleman, James Riordan, Edin Omerdic, Gerard Dooly, & Daniel Toal.	2019
Target tracking control of underactuated autonomous underwater vehicle based on adaptive nonsingular terminal sliding mode control	Jian Cao, Yushan Sun, Guocheng Zhang, Wenlong Jiao, Xiangbin Wang, and Zhaohang Liu.	2020
Localisation of Unmanned Underwater Vehicles (UUVs) in Complex and Confined Environments: A Review	Simon Watson, Daniel A. Duecker, Keir Groves.	2020

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ROV Navigation in a Fish Cage with Laser-Camera Triangulation	Magnus Bjerkeng, Trine Kirkhus, Walter Caharija, Jens T. Thielemann, Herman B. Amundsen, Sveinung Johan Ohrem, and Esten Ingar Grøtli.	2021
Underwater Docking Approach and Homing to Enable Persistent Operation	Brian R. Page, Reeve Lambert, Jalil Chavez-Galaviz and Nina Mahmoudian	2021
Safe & collaborative autonomous underwater docking	Auguste Bourgois	2021
Development of a Navigation and Position Tracking System for a Remotely Operated Vehicle (ROV) – ORCA	P Tejaswini, I Sai Deepika, & Sakthivel Murugan Santhanam	2021
Navigation of Underwater Drones and Integration of Acoustic Sensing with Onboard Inertial Navigation System.	Alexander Miller, Boris Miller, Gregory Miller	2021
Double-Loop Sliding Mode Controller with an Ocean Current Observer for the Trajectory Tracking of ROV	Weilei Mu, Yuxue Wang, Hailiang Sun, and Guijie Liu	2021
Multiple Bio-Inspired Father–Son Underwater Robot for Underwater Target Object Acquisition and Identification	Ruochen An, Shuxiang Guo, Yuanhua Yu, Chunying Li, & Tendeng Awa	2021
Trajectory tracking control of ROVs considering external disturbances and measurement noises using ESKF-based MPC	Chengqi Long, Xiaohui Qin, Yougang Bian, Manjiang Hu	2021
Disturbance Observer-Based Double-Loop Sliding-Mode Control for Trajectory Tracking of Work-Class ROVs	Author: Bolun Huang and Qi Yang	2022
Online paths planning method for unmanned surface vehicles based on rapidly exploring random tree and a cooperative potential field	Naifeng Wen, Lingling Zhao, Ru-Bo Zhang, Shuai Wang, Guanqun Liu, Junwei Wu, and Liyuan Wang	2022
Underwater Electromagnetic Guidance Based on the Magnetic Dipole Model Applied in AUV Terminal Docking.	Ri Lin, Yucheng Zhao, Dejun Li, Mingwei Lin, and Canjun Yang.	2022
An informative planning-based multi-layer robot navigation system as applied in a poultry barn.	Tingjun Lei, Guoming Li, Chaomin Luo, Li Zhang, Lantao Liu, & Richard Stephen Gates	2022
Reinforcement Learning Based Mobile Underwater Localization for Silent UUV in Underwater Acoustic Sensor Networks.	Ruiheng Liao, Wei Su, Xiurong Wu, & En Cheng	2022
Side-Scan Sonar Image Segmentation Based on Multi-Channel CNN for AUV Navigation	Dianyu Yang, Chensheng Cheng, Can Wang, Guang Pan and Feihu Zhang	2022
Position Tracking of an Underwater Robot Based on Floating-Downing PI Control	Chao-Lin Kuo , Yu-Chi Pu, and Qi-An Chen	2022
An Embedded Tactical Decision Aid Framework for Environmentally Adaptive Autonomous Underwater Vehicle Communication and Navigation	EeShan C. Bhatt, Bradley Howard, and Henrik Schmidt	2022

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ROV localization based on umbilical angle measurement	Christophe Vie, Juliette Drupt, Claire Dune, Vincent Hugel	2022
Design, Simulation, and Experimental Study on the Hydraulic Drive System of an AUV Docking Device with Multi-Degree Freedom	Xiaofei Du, Chaoyong Zong, Bo Zhang, and Maolin Shi	2022
Experimental Investigation of Relative Localization Estimation in a Coordinated Formation Control of Low-Cost Underwater Drones.	Thierry Soriano, Hoang Anh Pham, & Valentin Gies	2023
Accuracy Assessment of the Positioning of a Swarm of Underwater Vehicles in Relation to Four Surface Vehicles Using the TDOA Method	Krzysztof Naus	2023
Underwater ice adaptive mapping and reconstruction using autonomous underwater vehicles	Authors: Shuangshuang Fan, Xinyu Zhang, Guangxian Zeng, and Xiao Cheng	2023
Convert path planning for underwater vehicle based on sonar detection probability	Dan Zou, Fei Zhao	2023
Influence and remedial measures of missing test data on magnetic field source location of underwater vehicle	Ping Hu, Dawen Jiao , Jiahui Qi and Sidi Chen	2023
Localization Uncertainty Estimation for Autonomous Underwater Vehicle Navigation	Yong Zhang, Feihu Zhang, Zhiliang Wang, & Xiaofang Zhang	2023
Multimodal Global Trajectory Planner for Autonomous Underwater Vehicles	Rafał Kot	2023

Communication and controlling

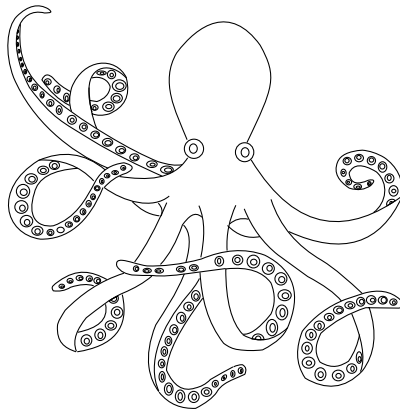


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Numerical stability analysis and control of umbilical–ROV systems in one-degree-of-freedom taut–slack condition	Mario Alberto Jordan & Jorge Luis Bustamante	2006
ROV automatization - Yaw identification and automarine module architecture	Marin Stipanov, Nikola Miskovic, Zoran Vukic, & Matko Barisic.	2007
Autonomous Underwater Multivehicle Control with Limited Communication. Theory and Experiment	Daniel J. Klein, Patrick K. Bettale, Benjamin I. Triplett, Kristi A. Morgansen	2008
A high fidelity ungrounded torque feedback device: The iTorqU 2.0 A h	Kyle N. Winfree, Jamie E. Gewirtz, Thomas Mather, Jonathan Fiene, and Katherine J. Kuchenbecker	2009
Design of a 2D Joystick for Robot Control Based on a 6 DOF Haptic Device	Daniel J. Brooksrov, Michael Lunderville, Holly A. Yanco	2013
Tuning Factor the Single Input Fuzzy Logic Controller to Improve the Performances of Depth Control for Underwater Remotely Operated Vehicle	Mohd Shahrieel Mohd Aras, Anuar Mohamed Kassim, Alias Khamis, Shahrum Shah Abdullah, Muhammad Azhar Abd Aziz.	2013
Development of Handheld Haptics Device for Driving System of Unmanned Underwater Vehicles	Syed Mohamad Shazali	2017
The ROV communication and control	Alin Ghilezan, Mihaela Hnatiuc.	2017
Modular Controls and Instrumentation Software for Icefin ROV	Charles Ramey, Matthew Meister, Anthony Spears. Josh Lutz, Daniel Dichek, Ben Hurwitz, Justin Lawrence, Jade Lawrence, Margaret Philleo, & Britney E. Schmidt	2018
Development of Intellectual Support System for ROV Operators	A Yu Konoplin, N Yu Konoplin, V F Filaretov	2019
Rendering ROV Rolling Motion on a Handheld Haptic Device	Syed Mohamad Shazali Bin Syed Abdul Hamid, Muhamad Addeen Bin Zailee	2020
Investigating PID Control for Station Keeping ROVs	Kyle L. Walker, Adam A. Stokes, Aristides Kiprakis, & Francesco Giorgio-Serchi	2020
Motion Control of a Two-Degree-of-Freedom Linear Resonant Actuator without a Mechanical Spring	Gyunam Kim & Katsuhiro Hirata	2020
Rendering ROV Rolling Motion on a Handheld Haptic Device	Syed Mohamad Shazali Bin Syed Abdul Hamid, Muhamad Addeen Bin Zailee	2020
Operating Cabled Underwater Observatories in Rough Shelf-Sea Environments: A Technological Challenge	Philipp Fischer, Holger Brix , Burkard Baschek, Alexandra Kraberg, Markus Brand , Boris Cisewski, Rolf Riethmüller, Gisbert Breitbach, Klas Ove Möller, Jean-Pierre Gattuso, Samir Alliouane, Willem H. van de Poll, and Rob Witbaard	2020

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
Preliminary Work on a Virtual Reality Interface for the Guidance of Underwater Robots.	Authors: Marcos de la Cruz, Gustavo Casañ, Pedro Sanz, and Raúl Marín	2020
Dynamic characteristics of deep-sea ROV umbilical cables under complex sea conditions	Peng Chen, Yuwang Liu, Shangkui Yang, Jibiao Chen, Qifeng Zhang, & Yuangui Tang	2021
Prototyping and Stabilizing of Under-Actuated Remotely Operated Vehicle (ROV) using Fuzzy PID Control Algorithm	Christos C. Constantinou, George P. Georgiades, and Savvas G. Loizou	2021
Communication and Control for Remotely Operated Underwater Vehicles	Thanh Le Xuan, Tuan Phan Anh, Duong Tran Khanh, Dong Nguyen, & Tung Pham Xuan	2022
Self-management of the umbilical of a ROV for underwater exploration	Christophe Viel	2022
Multi-Energy Acquisition Modeling and Control Strategy of Underwater Vehicles	Shijun Shen, Chaofan Wang, Zhiqiang Qiu, Zhiwu Ke, and Dawei Gong	2022
Attitude Stabilization Control of Autonomous Underwater Vehicle Based on Decoupling Algorithm and PSO-ADRC	Xiong Wu, Du Jiang, Juntong Yun, Xin Liu, Ying Sun, Bo Tao, Xiliang Tong, Manman Xu, Jianyi Kong, Ying Liu, Guojun Zhao, & Zifan Fang	2022
New approach for designing an underwater free-space optical communication system	Yanhu Chen, Luning Zhang, & Yucheng Ling	2022
An Underwater Human–Robot Interaction Using a Visual–Textual Model for Autonomous Underwater Vehicles	Yongji Zhang, Yu Jiang, Hong Qi, Minghao hao, Yuehang Wang, Kai Wang, Fenglin We	2022
Detection of an internal solitary wave by the underwater vehicle based on machine learning	Miao Zhang, Haibao Hu, Peng Du, Xiaopeng Chen, Zhuoyue Li, Chao Wang, Lu Cheng, Zijian Tang	2022
Intelligent Reflecting Surfaces for Underwater Visible Light Communications	Yalçın Ata, Hanaa Abumarshoud, Lina Bariah, Sami Muhaidat, and Muhammad Ali Imran	2022
Research on the Control Performance of Depth-Fixed Motion of Underwater Vehicle Based on Fuzzy-PID	Ya Xie, Afei Zhu, and Zhonghua Huang	2023
Research on non-contact wet mateable connector for optical communication and power transmission	Zhiyong Duan, Yurui Zhang, Jiaqi Hu, Bohao He, and Canjun Yang	2023
Designing and Analysis of Underwater Optical Wireless communication system.	Ali F.Kaeib, Omar .A. Alshawish, Suhayl Ali Altayf, Mohammed A. Gamoudi	2022
System identification (SI) modelling controller design and hardware testing for vertical trajectory of underwater remotely operated vehicle (ROV)	Fauzal Naim Zohedi, Mohd Shahrieel Mohd Aras, Hyreil Anuar Kasdirin, Mohd Bazli Bahar, & Lokman Abdullah	2023

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ROV Sliding Mode Controller Design and Simulation	Fushen Ren, and Qing Hu	2023
Design of a Control System for an Autonomous Underwater Vehicle EDYSYS1	Edosa Osa, Daniel Chinemelem Samuels	2023

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Towards a risk management process for autonomous underwater vehicles	Gwyn Griffith & Art Trembanis	2007
Design of Autonomous Underwater Vehicle	Tadahiro Hyakudome	2007
Dynamic Modeling and Simulation of a 3D Serial Eel-Like Robot	Wisama Khalil, Guillaume Gallot, and Frederic Boyer	2007
Micro ROV simulator	Zoran Fabekovic, Zdravko Eškinja, Zoran Vukic	2007
Modeling and simulation of an underwater remotely operated vehicle (ROV) for surveillance and inspection of port facilities using CFD tools.	Raul A. Valencia, Nikola Miskovic, Zoran Vukic, & Matko Barisic. Juan A. Ramirez, Luis B. Gutierrez, Manuel J. Garcia.	2008
Trends in ROV Development	Steve Cohan	2008
Investigation of a method for predicting AUV derivatives.	E.A. De Barros, A. Pascoal, E. de Sa	2008
Some Issues on the Design of a Low-Cost Autonomous Underwater Vehicle with an Intelligent Dynamic Mission Planner for Pipeline and Cable Tracking	Gerardo Gabriel Acosta, Hugo Curti, Oscar Calvo Ibáñez, Silvano Rossi.	2008
Snake-like Robots - Machine Design of Biologically Inspired Robots	Shigeo Hirose and Hiroya Yamada	2009
TRIDENT: A Framework for Autonomous Underwater Intervention Missions with Dexterous Manipulation Capabilities	Pedro J. Sanz, Pere Ridao, Gabriel Oliver, Claudio Melchiorri, Giuseppe Casalino, Carlos Silvestre, Yvan Petillot, Alessio Turetta	2010
design-construction & control of a remotely operated vehicle (ROV)	Alireza Marzbanrad, Jalil Sharafi, Mohammad Eghtesad, Reza Kamali	2011
Theoretical and experimental investigation on the total resistance of an underwater ROV remotely operating vehicle.	D. Obreja & L. Domnisoru	2011
Assessing the suitability of a remotely operated vehicle (ROV) to study the fish community associated with offshore gas platforms in the Ionian Sea: a comparative analysis with underwater visual censuses (UVCs)	Franco Andaloro, Maria Ferraro, Edoardo Mostarda, Teresa Romeo, & Pierpaolo Consoli	2012
TRIDENT: Recent Improvements about Autonomous Underwater intervention Missions	Pedro J. Sanz, Pere Ridao, Gabriel Oliver, Giuseppe Casalino, Carlos Insaurralde, Carlos Silvestre, Claudio Melchiorri, and Alessio Turetta	2012
Theoretical and experimental investigation on the total resistance of an underwater ROV remotely operating vehicle	D. Obreja & L. Domnisoru	2012
<u>Power integrity requirement of new generation of ROV for deep sea operation</u>	O. Sulaiman, A.H. Saharuddin.	2012

<i>Title</i>	<i>Authors</i>	<i>Year publication</i>
TRIDENT - An European Project Targeted to Increase the Autonomy Levels for Underwater Intervention Missions	Pedro J. Sanz, Pere Ridao, Gabriel Oliver, Giuseppe Casalino, Yvan Petillot, Carlos Silvestre, Claudio Melchiorri, Alessio Turetta	2013
Grand Challenges in Modeling and Simulation Symposium - Proceedings Summer Simulation Multiconference 2013	Curran Associates	2013
Numerical Simulations for the Prediction of Wave Forces on Underwater Vehicle using 3D Panel Method Code	Saeed Akram Malik, Pan Guang and Liu Yanan	2013
Stability of the Control Scheme of the Design of a Robotic Fish	Afolayan Matthew Olatunde	2013
PoseiDRONE: Design of a soft-bodied ROV with crawling, swimming and manipulation ability	Andrea Arienti, Marcello Calisti, Francesco Giorgio-Serchi, Cecilia Laschi	2013
Autonomous Soft Robotic Fish Capable of Escape Maneuvers Using Fluidic Elastomer Actuators	Andrew D. Marchese, Cagdas D. Onal, and Daniela Ru	2014
Dynamic Modeling of Floating Systems: Application to Eel-like Robot and Rowing system	Wisama Khalil, François Rongère	2014
A hybrid dynamic model for bio-inspired soft robots - Application to a flapping-wing micro air vehicle	Mathieu Porez, Frederic Boyer, Ayman Belkhiri	2014
Intervention AUVs: The Next Challenge	Pere Ridao, Marc Carreras, David Ribas, Pedro J. Sanz, Gabriel Oliver	2014
From Swimming to Walking with a Salamander Robot Driven by a Spinal Cord Model	Auke Jan Ijspeert, Alessandro Crespi, Dimitri Ryzko, Jean-Marie Cabelguen	2015
Identification of an Autonomous Underwater Vehicle Dynamic Using Extended Kalman Filter with ARMA Noise Model	Mehdi Zare Ernani, Mohammad Bozorg, and Saeed Ebrahimi	2015
Numerical investigation of the hydrodynamic interaction between two underwater bodies in relative motion	S.A.T. Randeni, Z.Q. Leong A, D. Ranmuthugala, A.L. Forrest, J. Duffy	2015
DNV-GL: Part 5 Types of UWT systems Chapter 7 Remotely operated vehicles	DNV	2015
Robust Design of Docking Hoop for Recovery of Autonomous Underwater Vehicle with Experimental Results	Wei Peng Lin, Cheng Siong Chin, Leonard Chin Wai Looi, Jun Jie Lim, and Elvin Min Ee Teh.	2015
Cephalopod-inspired soft robots: design criteria and modelling frameworks	Francesco Giorgio-Serchi, Federico Renda, and Cecilia Laschi	2015
Developing and Testing an Anguilliform Robot Swimming with Theoretical High Hydrodynamic Efficiency.	John B. Potts	2015
Biologically Inspired Robots in a New Dimension - A Review	Anil Antony Sequeira, Afeef Usman, Oommen Philip Tharakan, Mir Zeshan Ali	2016
IFAC World Congress 2017 Invited Open Track Proposal: Marine and Maritime Robotics: Innovation and Challenges	E. Zereik, M. Bibuli, A. Pascoal, P. Ridao, and N. Miskovic	2016

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P2-ROV a Portable/Polar ROV	Angelo Odetti, Giorgio Bruzzone, Massimo Caccia, Edoardo Spirandelli, & Gabriele Bruzzone	2017
Impact of arm morphology on the hydrodynamic behavior of a two-armed robotic marine vehicle	Asimina Kazakidi, Dimitris P. Tsakiris, John A. Ekaterinaris	2017
Soft Biomimetic Fish Robot Made of Dielectric Elastomer Actuators	Jun Shintake, Vito Cacucciolo, Herbert Shea, and Dario Floreano	2017
The Underwater Swimming Manipulator - A Bio-Inspired Solution for Subsea Operations	J. Sverdrup-Thygeson, E. Kelasidi, K. Y. Pettersen, and J. T. Gravdahl	2017
Simplified Modelling and Identification of an Inspection ROV	Thomas Thuesen Enevoldsen, Emil M'ar Einarsson, Simon Pedersen, Zhenyu Yang.	2018
Model comparison of a VideoRay Pro 4 Underwater ROV	Simon Pedersen, Thomas Thuesen Enevoldsen, & Emil M'ar Einarsson.	2018
Wireless Controlled Remotely-operated Underwater Vehicle (ROV) for Shallow Water Exploration	Muhammad Ikhsan Sani, Simon Siregar, Muhammad Muchlis Kurnia, Dzikri Hasbialloh	2018
Fluid parameter identification for an underwater snake robot.	Eleni Kelasidi, Gard Elgenes, Henrik Kilvaer	2018
Preliminary results of a dynamic modeling approach for underwater multi-hull vehicles	Roberta Ingrosso, Daniela De Palma, Giovanni Indiveri, and Giulio Avanzin	2018
Shipboard design and fabrication of customized 3D-printed soft robotic manipulators for the investigation of delicate deep-sea organisms	Daniel M. Vogt, Kaitlyn P. Becker, Brennan T. Phillips, Moritz A. Graule, Randi D. Rotjan, Timothy M. Shank, Erik E. Cordes, Robert J. Wood, David F. Gruber	2018
An electrical power control system for explorer-class remotely operated underwater vehicle (ROV)	Muhammad Ikhsan Sani, Simon Siregar, Muhammad Muchlis Kurnia, Dzikri Hasbialloh.	2019
Hydrodynamic Investigation of a Submarine Moving Under Free Surface	Ali Dogrul,	2019
Ultrahigh – energy density lead-free dielectric films via polymorphic nanodomain design	Hao Pan, Fei Li, Yao Liu, Qinghua Zhang, Meng Wang, Shun Lan, Yunpeng Zheng, Jing Ma, Lin Gu, Yang Shen, Pu Yu, Shujun Zhang, Long-Qing Chen , Yuan-Hua Lin, Ce-Wen Nan	2019
A Systematic Review of Remotely Operated Vehicle Surveys for Visually Assessing Fish Assemblages	Darryn Sward, Jacquomo Monk, and Neville Barrett	2019
Front surface geometry modeling of remotely operated vehicle (ROV) body observation class	Dhimas Satria, Romi Wiryadinata, Dpal Esiswitoyo, Muhamad Haykal, Fasya, Imron Rosyadi, Sidik Susilo, & Rina Lusiani.	2019
Robust Formation Control for Multiple Underwater Vehicles	Charalampos P. Bechlioulis, Fotis Giagkas, Georges C. Karras, Kostas j. Kyriakopoulos.	2019
Design and Construction of an ROV for Underwater Exploration	Oscar Adrian Aguirre-Castro, Everardo Inzunza-González, Enrique Efrén García-Guerrero, Esteban Tlelo-Cuautle, Oscar Roberto López-Bonilla, Jesús Everardo Olgún-Tiznado, and José Ricardo Cárdenas-Valdez	2019

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Enhancing the Scientific Value of Industry Remotely Operated Vehicles (ROVs) in Our Oceans	Dianne L. McLean, Miles J. G. Parsons, Andrew R. Gates, Mark C. Benfield, Todd Bond, David J. Booth, Michael Bunce, Ashley M. Fowler, Euan S. Harvey, Peter I. Macreadie, Charitha B. Pattiaratchi, Sally Rouse, Julian C. Partridge, Paul G. Thomson, Victoria L. G. Todd, and Daniel O. B. Jones.	2019
Jellyfish-Inspired Soft Robot Driven by Fluid Electrode Dielectric Organic Robotic Actuators	Caleb Christianson, Christopher Bayag, Guorui Li, Saurabh Jadhav, Ayush Giri, Chibuike Agba, Tiefeng Li, and Michael T. Tolley.	2019
Geometric Insight into the Control Allocation Problem for Open-Frame ROVs and Visualisation of Solution	Edin Omerdic, Petar Trslic, Admir Kaknjo, Anthony Weir, Muzaffar Rao, Gerard Dooly and Daniel Toal	2020
SAUV—A Bio-Inspired Soft-Robotic Autonomous Underwater Vehicle	Fabian Plum, Susanna Labisch, Jan-Henning Dirks.	2020
Underwater Robotics Competitions: The European Robotics League Emergency Robots Experience With FeelHippo AUV	Matteo Franchi, Francesco Fanelli, Mattei Bianchi, Alessandro Ridolfi & Benedetto Allotta.	2020
Enhancing the Scientific Value of Industry Remotely Operated Vehicles (ROVs) in Our Oceans	Dianne L. McLean, Miles J. G. Parsons, Andrew R. Gates, Mark C. Benfield, Todd Bond. David J. Booth, Michael Bunce, Ashley M. Fowler, Euan S. Harvey, Peter I. Macreadie, Charitha B. Pattiaratchi, Sally Rouse, Julian C. Partridge, Paul G. Thomson, Victoria L. G. Todd, and Daniel O. B. Jones.	2020
Experimental Force Data of a Restrained ROV under Waves and Current	Roman Gabl, Thomas Davey, Yu Cao, Qian Li, Boyang Li, Kyle L. Walker, Francesco Giorgio-Serchi, Simona Aracri, Aristides Kiprakis, Adam A. Stokes, and David MIngram	2020
An Untethered Brittle Star-Inspired Soft Robot for closed-Loop Underwater Locomotion	Zach J. Patterson, Andrew P. Sabelhaus, Keene Chin, Tess Hellebrekers, and Carmel Majidi	2020
Proposed Mathematical Modeling of Small Remotely Operated Vehicle (ROV) Movement	Iis Hamsir Ayub Wahab, Rintania Elliyati Nuryaningsih, Achmad Pradjudin Sardju	2020
Applying a Low Cost, Mini Remotely Operated Vehicle (ROV) to Assess an Ecological Baseline of an Indigenous Seascape in Canada	Elena Buscher, Darcy L. Mathews, Cheryl Bryce, Kathleen Bryce, Darlene Joseph, and Natalie C. Ban	2020
First-Order Dynamic Modeling and Control of Soft Robots	Thomas George Thuruthel, Federico Renda, and Fumiya Iida	2020
A better ROV/AUV for behavioral ecology	Rodney Rountree	2020
Analysis of The Impact of Different Angles of Thrusters in Underwater Vehicles on Thrust Force in CAD Environment	Talha Gülgün, Göksel Alankaya, Muhammet Emin Duran, Mertcan Erdogdu, Ismail Yalçınkaya, Akif Durdu, Hakan Terzioglu	2020

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Study on Unmanned Hybrid Unmanned Surface Vehicle and Unmanned Underwater Vehicle System	Han-Sol Jin, Hyunjoon Cho, Ji-Hyeong Lee, Huang Jiafeng, Myung-Jun Kim, Ji-Youn Oh, and Hyeung-Sik Cho	2020
The Use of a UVC Lamp Incorporated With an ROV to Prevent Biofouling: A Proof-of-Concept Study	Cierra Braga, Kelli Hunsucker, Caglar Erdogan, Harrison Gardner, & Geoffrey Swain.	2020
The preliminary of Design and Movement of Remotely Operated Vehicle (ROV)	S Manullang, A Pusaka, A Setiawan.	2020
Improved Deployable Defense against BGP Hijacking	Reynaldo Morillo, Justin Furuness, Cameron Morris, James Breslin	2020
The Concept of the Unmanned Surface Vehicle for the Observation-class ROV	A Yu Tolstonogov, A E Kozhushko, I A Chemezov, D A Skalskii, & A Yu Kolomeitsev.	2021
Experimental Validation of Wave Induced Disturbances for Predictive Station Keeping of a Remotely Operated Vehicle	Kyle L. Walker, Roman Gabl, Simona Aracri, Yu Cao, Adam A. Stokes, Aristides Kiprakis, Francesco Giorgio-Serchi.	2021
ROV launch and recovery from an unmanned autonomous surface vessel – Hydrodynamic modelling and system integration	Chenyu Zhao, Philipp Thies, Johanning Lars, James Cowles	2021
Unity Underwater ROV Simulator	Kun Seng Vu	2021
Review on Unmanned Underwater Robotics, Structure Designs, Materials, Sensors, Actuators, and Navigation Control	Javier Neira, Cristhel Sequeiros, Richard Huamani, Elfer Machaca, Paola Fonseca, and Wilder Nina Sim	2021
Design and Development of SelamDrone Underwater ROV Manoeuvring Control	O.W. Zulkarnain, A.A. M. Redhwan, N. Bahiyah Baba, M.N. Fadhil, & S. Rosn	2021
A Perspective on Cephalopod Mimicry and Bioinspired Technologies toward Proprioceptive Autonomous Soft Robots	Goffredo Giordano, Marco Carlotti, and Barbara Mazzolai	2021
The conception and exploration of the underwater vehicle simulator	Gong Shao-feng, Zhang Jian-bin, Cheng Dong, Xiao Hai-Yan, Dong Ping WU Zhan-sheng	2021
Investigating the winch performance in an ASV/ROV autonomous inspection system	Chenyu Zhao, Philipp R. Thies, Lars Johanning.	2021
Investigation of a New Hovering Autonomous Underwater Vehicle for Underwater Missions	Faryar Shamshiri Amirkolai, Reza Hasanzadeh Ghasemi	2021
From market-ready ROVs to low-cost AUVs	Jonatan Scharff Willners, Ignacio Carlucho, Tomasz Łuczyński, Sean Katagiri, Chandler Lemoine, Joshua Roe, Dylan Stephens, Shida Xu, Yaniel Carreno, Eric Pairet, Corina Barbalata, Yvan Petillot, Sen Wang	2021

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Underwater Crawling Robot With Hydraulic Soft Actuators	Qinlin Tan, Yishan Chen, Jianhui Liu, Kehan Zou, Juan Yi, Sicong Liu, and Zheng Wang	2021
Catching jellies in immersive virtual reality: A comparative teleoperation study of ROVs in underwater capture tasks	Aviv Elor, Tiffany Thang, Benjamin P. Hughes, Alison Crosby, Amy Phung, Everardo Gonzalez, Kakani Katija, Steven H. D. Haddock, Benjamin E. Erwin, Eric J. Martin, Leila Takayama	2021
Cost-effective Remote Operated Vehicle	Zachari Smolder, Jingang Yi	2021
Simulation model for energy consumption and acoustic underwater communication of autonomous underwater vehicles	Peter Danielis, Helge Parzyjegl, Mostafa Assem Mohamed Ali, Frank Sill Torres.	2021
Operational failure assessment of Remotely Operated Vehicle (ROV) in harsh offshore environments	Samson Nitonye, Sidum Adumene, Charles Ugochukwu Orji, Anietie Effiong Udo.	2021
A Shift from Efficiency to Adaptability: Recent Progress in Biomimetic Interactive Soft Robotics in Wet Environments	Jielun Fang, Yanfeng Zhuang, Kailang Liu, Zhuo Chen, Zhou Liu, Tiantian Kong, Jianhong Xu, and Cheng Qi	2022
Underwater Soft Robotics: A Review of Bioinspired Design, Actuation, Modeling, and Control	Samuel M. Youssef, MennaAllah,, Mahmood A. Saleh, Mostafa A. Mousa, Mahmoud Elsamanty, and Ahmed G. Radwan	2022
Modifying an Affordable ROV for Under-ice Sensing	Lin Zhao, Mingxi Zhou, Brice Loose, Virginia Cousens, Raymond Turris	2022
Self-management of the umbilical of a ROV for underwater exploration	Christophe Viel	2022
Total Design in the Design and Development Process of a Remotely Operated Vehicle (ROV) with Particular Consideration of Sensorization.	Teresa Ramos, Antonio Córdoba, Amalia Luque, and Ana de las Heras	2022
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Optimum design of acoustic stealth shape of underwater vehicle model with conning tower	Yuhang Tang, Xueren Wang, Xuhong Miao, Shengyao Gao, Bing Li, and Zilong Peng	2023
Lightweight underwater robot developed for archaeological surveys and excavations.	Shohei Hotta, Yusuke Mitsui, Mizuki Suka, Norimitsu Sakagami, and Sadao Kawamura.	2023
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