

Publications of Giovanni Indiveri

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1 International Journals (rir)

21rir Gianluca Antonelli, Filippo Arrichiello, Andrea Caiti, Giuseppe Casalino, Daniela De Palma, Giovanni Indiveri, Matteo Razzanelli, Lorenzo Pollini, and Enrico Simetti, ISME ACTIVITY ON THE USE OF AUTONOMOUS SURFACE AND UNDERWATER VEHICLES FOR ACOUSTIC SURVEYS AT SEA, ACTA IMEKO, June 2018, Volume 7, Number 2, Pages 24-31

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20rir Daniela De Palma, Filippo Arrichiello, Gianfranco Parlangei and Giovanni Indiveri, UNDERWATER LOCALIZATION USING SINGLE BEACON MEASUREMENTS: OBSERVABILITY ANALYSIS FOR A DOUBLE INTEGRATOR SYSTEM, Ocean Engineering, Volume 142, 2017, Pages 650 - 665

DOI: 10.1016/j.oceaneng.2017.07.025

<https://doi.org/10.1016/j.oceaneng.2017.07.025>

19rir Casalino, G., Caccia, M., Caselli, S., Melchiorri, C., Antonelli, G., Caiti, A., Indiveri, G., Cannata, G., Simetti, E., Torelli, S., Sperindé, A., Wanderlingh, F., Muscolo, G., Bibuli, M., Bruzzone, G., Zereik, E., Odetti, A., Spirandelli, E., Ranieri, A., Aleotti, J., Rizzini, D.L., Oleari, F., Kallasi, F., Palli, G., Scarcia, U., Moriello, L. and Cataldi, E., UNDERWATER INTERVENTION ROBOTICS: AN OUTLINE OF THE ITALIAN NATIONAL PROJECT MARIS, Marine Technology Society Journal Volume 50, Issue 4, July-August 2016, Pages 98-107

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18rir Di Lillo, P.A., Simetti, E., De Palma, D., Cataldi, E., Indiveri, G., Antonelli, G. and Casalino, G., ADVANCED ROV AUTONOMY FOR EFFICIENT REMOTE CONTROL IN THE DEXROV PROJECT, Marine Technology Society Journal Volume 50, Issue 4, July-August 2016, Pages 67-80

DOI: 10.4031/MTSJ.50.4.8

<http://dx.doi.org/10.4031/MTSJ.50.4.8>

17rir Abreu, P., Antonelli, G., Arrichiello, F., Caffaz, A., Caiti, A., Casalino, G., Volpi, N.C., De Jong, I.B., De Palma, D., Duarte, H., Gomes, J.P., Grimsdale, J., Indiveri, G., Jesus, S., Kebkal, K., Kelholt, E., Pascoal, A., Polani, D., Pollini, L., Simetti, E. and Turetta, A., WIDELY SCALABLE MOBILE UNDERWATER SONAR TECHNOLOGY: AN OVERVIEW OF THE H2020 WIMUST PROJECT, Marine Technology Society Journal Volume 50, Issue 4, July-August 2016, Pages 42-53

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- 16rir** Giovanni Indiveri, Daniela De Palma, and Gianfranco Parlangeli, SINGLE RANGE LOCALIZATION IN 3-D: OBSERVABILITY AND ROBUSTNESS ISSUES, IEEE Transactions On Control Systems Technology, Volume: PP, Issue: 99, pages 1-8, 2016

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- 15rir** Daniela De Palma and Giovanni Indiveri, OUTPUT OUTLIER ROBUST STATE ESTIMATION, Int. Journal Adapt. Control Signal Process, Wiley Online Library, 2016

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- 14rir** Gianfranco Parlangeli and Giovanni Indiveri, SINGLE RANGE OBSERVABILITY FOR COOPERATIVE UNDERACTUATED UNDERWATER VEHICLES, Annual Reviews in Control, Volume 40, 2015, Pages 129 - 141, DOI: 10.1016/j.arcontrol.2015.09.008

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- 13rir** Antonio Paolo Carlucci, Antonio Ficarella, Giovanni Indiveri and Paolo Presicce, AN IMPROVED PARAMETER IDENTIFICATION SCHEMA FOR THE DYNAMIC MODEL OF LD CONVERTERS, Journal of Process Control Volume 31, July 2015, Pages 64 - 72

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- 12rir** Giovanni Indiveri and Alessandro Malerba, COMPLEMENTARY CONTROL FOR ROBOTS WITH ACTUATOR REDUNDANCY: AN UNDERWATER VEHICLE APPLICATION, Robotica, Volume 35, Issue 1, January 2017, pp. 206-223. [Published online: 06 March 2015]

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- 11rir** Giovanni Indiveri, AN OUTLIER ROBUST FILTER FOR MARITIME ROBOTICS APPLICATIONS, Paladyn, Journal of Behavioral Robotics. Volume 4, Issue 4 Pages 194-201, ISSN (Print) 2081-4836, December 2013, DOI: 10.2478/pjbr-2013-0012

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- 10rir** Nicola Ivan Giannoccaro, Giovanni Indiveri and Luigi Spedicato, LEAST ENTROPY-LIKE APPROACH FOR RECONSTRUCTING L-SHAPED SURFACES USING A ROTATING ARRAY OF ULTRASONIC SENSORS, International Journal of Soft Computing And Software Engineering (JSCSE) Vol. 2, No. 6, June 2012, pp. 1 - 15 DOI: 10.7321/jscse.v2.n6.1

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- 9rir** Filippo Arrichiello, Stefano Chiaverini, Giovanni Indiveri and Paola Pedone, THE NULL-SPACE BASED BEHAVIORAL CONTROL FOR MOBILE ROBOTS WITH VELOCITY ACTUATOR SATURATIONS, The International Journal of Robotics Research Vol. 29, No. 10, September 2010,

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- 7rir** Giovanni Indiveri, SWEDISH WHEELED OMNIDIRECTIONAL MOBILE ROBOTS: KINEMATICS ANALYSIS AND CONTROL, *IEEE Transactions On Robotics*, Vol. 25, No. 1, February 2009, pp. 164 - 171, DOI: 10.1109/TRO.2008.2010360
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- 6rir** Cosimo Distante, Giovanni Indiveri and Giulio Reina, AN APPLICATION OF MOBILE ROBOTICS FOR OLFACTORY MONITORING OF HAZARDOUS INDUSTRIAL SITES, *The Industrial Robot*, vol. 36, 2009, pp. 51-59.
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- 3rir** M. Caccia, G. Indiveri, G. Veruggio, MODELLING AND IDENTIFICATION OF OPEN-FRAME VARIABLE CONFIGURATION UNMANNED UNDERWATER VEHICLES, *IEEE Journal of Oceanic Engineering*, vol. 25, no. 2, April 2000, pp. 227 - 240.
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- 2rir** G. Indiveri, E. Scalas, A. C. Levi, A. Gliozzi, MORPHOLOGIES IN TWO-DIMENSIONAL GROWTH WITH ATTRACTIVE LONG-RANGE INTERACTIONS, *Physica A*, vol. 273, 1999, pp. 217-230.
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2 Book Chapters (bc)

- 6bc** Enrico Ciavolino and Giovanni Indiveri, ENTROPY-BASED ESTIMATORS IN THE PRESENCE OF MULTICOLLINEARITY AND OUTLIERS in *Multicriteria and Multiagent Decision Making with Applications to Economics and Social Sciences*, Editors: Aldo G. S. Ventre, Antonio Maturo, Šárka Hošková-Mayerová and Janusz Kacprzyk, ISBN: 978-3-642-35634-6 (Print) 978-3-642-35635-3 (Online), *Studies in Fuzziness and Soft Computing*, Volume 305, Springer Berlin Heidelberg, pp. 65-76, 2013 DOI: 10.1007/978-3-642-35635-3_5 http://dx.doi.org/10.1007/978-3-642-35635-3_5
- 5bc** Giovanni Indiveri, Jan Paulus, and Paul G. Plöger, MOTION CONTROL OF SWEDISH WHEELED MOBILE ROBOTS IN THE PRESENCE OF ACTUATOR SATURATION in *RoboCup 2006: Robot Soccer World Cup X*, ISSN 0302-9743 (Print) 1611-3349 (Online), ISBN 978-3-540-74023-0, DOI 10.1007/978-3-540-74024-7_4 Volume 4434, 2007, *Lecture Notes in Computer Science*, Springer Berlin Heidelberg, pp. 35-46, 2007 <http://dx.doi.org/10.1007/978-3-540-74024-7>
- 4bc** Giovanni Indiveri, ON THE MOTION CONTROL OF A NONHOLONOMIC SOCCER PLAYING ROBOT, in *RoboCup 2001: Robot Soccer World Cup V*, ISSN 0302-9743 (Print) 1611-3349 (Online), ISBN 978-3-540-43912_7, DOI 10.1007/3-540-45603-1_48, Volume 2377, 2002, *Lecture Notes in Computer Science*, Springer Berlin / Heidelberg, 2002, pp. 387 - 392 <http://dx.doi.org/10.1007/3-540-45603-1>
- 3bc** Ansgar Bredenfeld, Vlatko Bećanović, Thomas Christaller, Horst Günther, Giovanni Indiveri, Hans-Ulrich Kobiálka, Paul-Gerhard Plöger and Peter Schöll, GMD-ROBOTS, in *RoboCup 2001: Robot Soccer World Cup V*, ISSN 0302-9743 (Print) 1611-3349 (Online), ISBN 978-3-540-43912_7, DOI 10.1007/3-540-45603-1_104, Volume 2377, 2002, *Lecture Notes in Computer Science*, Springer Berlin / Heidelberg, 2002, pp. 648 - 652 <http://dx.doi.org/10.1007/3-540-45603-1>
- 2bc** Vlatko Bećanović, Giovanni Indiveri, Hans-Ulrich Kobiálka, Paul G. Plöger and Alan Stocker, SILICON RETINA SENSING GUIDED BY OMNI-DIRECTIONAL VISION in *Mechatronics and Machine Vision 2002: Current Practice*, Robin Bradbeer and John Billingsley (eds.) Baldock, Hertfordshire, England; Philadelphia, PA : Research Studies Press; Hebron, KY : Distribution, Taylor & Francis, 2002. (Robotics and mechatronics series; 4) ISBN: 0-86380-278-8, pp. 13-21.
- 1bc** Ansgar Bredenfeld, Thomas Christaller, Horst Günther, Jörg Hermes, Giovanni Indiveri, Herbert Jaeger, Hans-Ulrich Kobiálka, Paul-Gerhard Plöger and Peter Schöll, Andrea Siegborg, GMD-ROBOTS, in *RoboCup 2000: Robot Soccer World Cup IV*, ISSN 0302-9743 (Print), ISBN 978-3-540-45324-6 (online), ISBN 978-3-540-42185-6 (print), DOI 10.1007/3-540-45324-5_91, Volume 2019, 2001, *Lecture Notes in Computer Science*, Springer Berlin / Heidelberg, 2001, pp. 579 - 582 <http://dx.doi.org/10.1007/3-540-45324-5>

3 Edited Books (ed)

- 3ed** Proceedings of the 8th IFAC Symposium on Intelligent Autonomous Vehicles (IFAC IAV 2013), 26 - 28 June 2013, Gold Coast, Australia. Intelligent Autonomous Vehicles, Volume # 8, Part# 1, Edited by Ljubo Vlacic, Stefan M. Jakubek and Giovanni Indiveri, ISBN: 978-3-902823-36-6, DOI: 10.3182/20130626-3-AU-2035.90001 <http://dx.doi.org/10.3182/20130626-3-AU-2035.90001>
- 2ed** Proceedings of the 7th IFAC Symposium on Intelligent Autonomous Vehicles (IFAC IAV 2010), 6 - 9 September 2010, Lecce, Italy. Intelligent Autonomous Vehicles, Volume # 7, Part# 1, Edited by Giovanni Indiveri and Antonio M. Pascoal, ISBN: 978-3-902661-87-6, DOI: 10.3182/20100906-3-IT-2019.90001 <http://dx.doi.org/10.3182/20100906-3-IT-2019.90001>
- 1ed** Thomas Christaller, Giovanni Indiveri and Axel Poigné (Eds.) PROCEEDINGS OF THE WORKSHOP ON EDUTAINMENT ROBOTICS 2000, 27th - 28th September 2000, Sankt Augustin, Germany - GMD - Forschungszentrum Informationstechnik GmbH, GMD Report 129, ISSN 1435-2702, Sankt Augustin, Germany, March 2001, 52 pages.

4 Thesis and Technical reports (trt)

- 5trt** Giovanni Indiveri and Gianfranco Parlangeli, FURTHER RESULTS ON THE OBSERVABILITY ANALYSIS AND OBSERVER DESIGN FOR SINGLE RANGE LOCALIZATION IN 3D, arxiv.org document arXiv:1308.0517, August 2013, <http://arxiv.org/abs/1308.0517>
- 4trt** Giovanni Indiveri, NOTES ON AN ENTROPY-LIKE METHOD FOR ROBUST PARAMETER IDENTIFICATION, Technical Report No. 17, School of Engineering and Science, Jacobs University, Bremen, Germany, July 2008. (<http://www.jacobs-university.de/>)
- 3trt** Giovanni Indiveri, LINEAR COURSE TRACKING FOR UNDERACTUATED MARINE VEHICLES: A TIME-INVARIANT NONLINEAR CONTROLLER, GMD - Forschungszentrum Informationstechnik GmbH, GMD Report 83, ISSN 1435-2702, Sankt Augustin, Germany, December 1999, 18 pages.
- 2trt** Giovanni Indiveri, MODELLING AND IDENTIFICATION OF UNDERWATER ROBOTIC SYSTEMS, Ph.D. Thesis at DIST University of Genova, Italy and IAN - National Research Council (CNR), Italy, 1998.
- 1trt** Giovanni Indiveri, CRESCITA DI AGGREGATI CON INTERAZIONI INTERMOLECOLARI A LUNGO RAGGIO, Tesi di Laurea in Fisica, Facoltà di Scienze, Università di Genova, Marzo 1995. (*in Italian*)

5 International Conferences with Peer Review (cr)

- 93cr** Daniela De Palma, and Giovanni Indiveri, NAVIGATION FILTERS FOR AUTONOMOUS UNDERWATER VEHICLES DURING GEOTECHNICAL SURVEYING EXPERIMENTS, 11th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles, IFAC CAMS 2018 September 10-12, 2018, Opatija, Croatia, <http://ifac-cams2018.com/>
- 92cr** Roberta Ingrosso, Daniela De Palma, Giulio Avanzini, and Giovanni Indiveri, PRELIMINARY RESULTS OF A DYNAMIC MODELLING APPROACH FOR UNDERWATER MULTI-HULL VEHICLES, 11th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles, IFAC CAMS 2018 September 10-12, 2018, Opatija, Croatia, <http://ifac-cams2018.com/>
- 91cr** Daniela De Palma, Giovanni Indiveri, and Antonio M. Pascoal, ADVANCES ON A NULL-SPACE-BASED APPROACH TO RANGE-ONLY UNDERWATER STEERING AND POSITIONING, IEEE/ION IEEE/ION Position Location and Navigation Symposium PLANS 2018, April 23-26, 2018, Monterey, California, <https://www.ion.org/plans/index.cfm>
- 90cr** Gianluca Antonelli, Filippo Arrichiello, Andrea Caiti, Giuseppe Casalino, Daniela De Palma, Giovanni Indiveri, Lorenzo Pollini and Enrico Simetti, ISME TRENDS: AUTONOMOUS SURFACE AND UNDERWATER VEHICLES FOR GEOSEISMIC SURVEY, 1st IMEKO TC19 Workshop on Metrology for the Sea "Learning to measure sea health parameters", Special session "Metrology traceability for oceanic parameters" together with TC8 and TC12, Naples, Italy, 11 - 13 October 2017, <http://www.metrosea.org>
- 89cr** Enrico Simetti, Francesco Wanderlingh, Giuseppe Casalino, Giovanni Indiveri and Gianluca Antonelli, ROBUST PROJECT: CONTROL FRAMEWORK FOR DEEP SEA MINING EXPLORATION, MTS/IEEE Oceans 17 Anchorage September 18-21 2017, Anchorage, Alaska
- 88cr** Marco Bibuli, Gabriele Bruzzone, Massimo Caccia, Angelo Odetti, Giovanni Indiveri, Roberta Ingrosso and Giuseppe Casalino, A PRACTICAL IDENTIFICATION PROCEDURE FOR UNMANNED UNDERWATER VEHICLES - FROM MODELING TO EXPERIMENTS, MTS/IEEE OCEANS 2017, Aberdeen, UK, pp. , June 19 - 22, 2017.
- 87cr** Enrico Simetti, Francesco Wanderlingh, Giuseppe Casalino, Giovanni Indiveri and Gianluca Antonelli, DEXROV PROJECT: CONTROL FRAMEWORK FOR UNDERWATER INTERACTION TASKS, MTS/IEEE OCEANS 2017, Aberdeen, UK, pp. , June 19 - 22, 2017.
- 86cr** Giovanni Indiveri, Gianluca Antonelli, Filippo Arrichiello, Andrea Caffaz, Andrea Caiti, Giuseppe Casalino, Nicola Catenacci Volpi, Ivan Bielic de Jong, Daniela De Palma, Henrique Duarte, Joao Pedro Gomes, Jonathan Grimsdale, Sergio Jesus, Konstantin Kebkal, Elbert Kelholt, Antonio Pascoal, Daniel Polani, Lorenzo Pollini, Enrico Simetti and Alessio Turetta, OVERVIEW AND FIRST YEAR PROGRESS OF THE WIDELY SCALABLE MOBILE UNDERWATER SONAR TECHNOLOGY H2020 PROJECT, 10th IFAC Conference on Control Applications in Marine Systems - CAMS 2016 Trondheim, Norway, 13-16 September 2016, IFAC-PapersOnLine, Volume 49, Issue 23, 2016, Pages 430-433, ISSN 2405-8963, DOI: 10.1016/j.ifacol.2016.10.442 <http://dx.doi.org/10.1016/j.ifacol.2016.10.442>

- 85cr** Jeremi Gancet, Peter Weiss, Gianluca Antonelli, Max Folkert Pfingsthorn, Sylvain Calinon, Alessio Turetta, Cees Walen, Diego Urbina, Shashank Govindaraj, Pierre Letier, Xavier Martinez, Joseph Salini, Bertrand Chemisky, Giovanni Indiveri, Giuseppe Casalino, Paolo Di Lillo, Enrico Simetti, Daniel De Palma, Andreas Birk, Tobias Fromm, Christian Mueller, Ajay Tanwani, Ioannis Havoutis, Andrea Caffaz and Lisa Guilpain, DEXTEROUS UNDERSEA INTERVENTIONS WITH FAR DISTANCE ONSHORE SUPERVISION: THE DEXROV PROJECT, 10th IFAC Conference on Control Applications in Marine Systems - CAMS 2016 Trondheim, Norway, 13-16 September 2016, IFAC-PapersOnLine, Volume 49, Issue 23, 2016, Pages 414-419, ISSN 2405-8963,
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<http://dx.doi.org/10.1016/j.ifacol.2016.10.439>
- 84cr** Daniela De Palma and Giovanni Indiveri, UNDERWATER VEHICLE GUIDANCE CONTROL DESIGN WITHIN THE DEXROV PROJECT: PRELIMINARY RESULTS, 10th IFAC Conference on Control Applications in Marine Systems - CAMS 2016 Trondheim, Norway, 13-16 September 2016, IFAC-PapersOnLine, Volume 49, Issue 23, 2016, Pages 265-272, ISSN 2405-8963,
DOI: 10.1016/j.ifacol.2016.10.353
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- 83cr** Gianluca Antonelli, Andrea Caffaz, Giuseppe Casalino, Nicola Catenacci Volpi, Ivan Bielic de Jong, Daniela De Palma, Henrique Duarte, Jonathan Grimsdale, Giovanni Indiveri, Sergio Jesus, Konstantin Kebkal, Antonio Pascoal, Daniel Polani and Lorenzo Pollini, THE WIDELY SCALABLE MOBILE UNDERWATER SONAR TECHNOLOGY (WIMUST) H2020 PROJECT: FIRST YEAR STATUS, OCEANS 2016 - Shanghai, Shanghai, 10 - 13 April 2016, pp. 1-8.
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- 82cr** Casalino, G. , Allotta, B., Antonelli, G., Caiti, A., Conte, G., Indiveri, G., Melchiorri, C. and Simetti, E., ISME RESEARCH TRENDS: MARINE ROBOTICS FOR EMERGENCIES AT SEA, OCEANS 2016 - Shanghai, Shanghai, 10 - 13 April 2016, pp. 1-5.
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- 81cr** Catenacci Volpi, N., De Palma, D., Polani, D. and Indiveri, G., COMPUTATION OF EMPOWERMENT FOR AN AUTONOMOUS UNDERWATER VEHICLE, IFAC-PapersOnLine, 9th IFAC Symposium on Intelligent Autonomous Vehicles IAV 2016 - Leipzig, Germany, 29 June - 1 July 2016, Volume 49, Issue 15, 2016, Pages 81-87
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- 80cr** Daniela De Palma, Giovanni Indiveri, António M. Pascoal, A NULL-SPACE-BASED BEHAVIORAL APPROACH TO SINGLE RANGE UNDERWATER POSITIONING, Proceedings of the 10th IFAC Conference on Manoeuvring and Control of Marine Craft MCMC 2015 - Copenhagen,

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- 79cr** Jeremi Gancet, Diego Urbina, Pierre Letier, Michel Ilzkovitz, Peter Weiss, Fred Gauch, Bertrand Chemisky, Gianluca Antonelli, Giuseppe Casalino, Giovanni Indiveri, Andreas Birk, Max F. Pflingsthor, Sylvain Calinon, Alessio Turetta, Cees Walen and Lisa Guilpain, DEXROV: ENABLING EFFECTIVE DEXTEROUS ROV OPERATIONS IN PRESENCE OF COMMUNICATION LATENCY, Proceedings OCEANS'15 MTS/IEEE Genova, 18-21 May 2015, Genova, Italy, pp 1-6, DOI: 10.1109/OCEANS-Genova.2015.7271691
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- 78cr** Habib Al-Khatib, Gianluca Antonelli, Andrea Caffaz, Andrea Caiti, Giuseppe Casalino, Ivan Bielic de Jong, Henrique Duarte, Giovanni Indiveri, Sergio Jesus, Konstantin Kebkal, Antonio Pascoal and Daniel Polani, THE WIDELY SCALABLE MOBILE UNDERWATER SONAR TECHNOLOGY (WiMUST) PROJECT: AN OVERVIEW, Proceedings OCEANS'15 MTS/IEEE Genova, 18-21 May 2015, Genova, Italy, pp 1-5, DOI: 10.1109/OCEANS-Genova.2015.7271688
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- 77cr** Filippo Arrichiello, Daniela De Palma, Giovanni Indiveri, and Gianfranco Parlange, OBSERVABILITY ANALYSIS FOR SINGLE RANGE LOCALIZATION, Proceedings of OCEANS'15 MTS/IEEE Genova, 18-21 May 2015, Genova, Italy, pp. 1-10, DOI: 10.1109/OCEANS-Genova.2015.7271684
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- 76cr** Daniela De Palma, Giovanni Indiveri and Gianfranco Parlange, MULTI-VEHICLE RELATIVE LOCALIZATION BASED ON SINGLE RANGE MEASUREMENTS, Proceedings of the 3rd IFAC Workshop on Multivehicle Systems MVS 2015, 18 May 2015, Genova, Italy, IFAC-PapersOnLine, Volume 48, Issue 5, 2015, pp. 017 - 022, DOI: 10.1016/j.ifacol.2015.06.457
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- 75cr** Habib Al-Khatib, Gianluca Antonelli, Andrea Caffaz, Andrea Caiti, Giuseppe Casalino, Ivan Bielic de Jong, Henrique Duarte, Giovanni Indiveri, Sergio Jesus, Konstantin Kebkal, Antonio Pascoal and Daniel Polani, NAVIGATION, GUIDANCE AND CONTROL OF UNDERWATER VEHICLES WITHIN THE WIDELY SCALABLE MOBILE UNDERWATER SONAR TECHNOLOGY (WiMUST) PROJECT: AN OVERVIEW, Proceedings of the 4th IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles (NGCUV 2015), 28th - 30th April 2015, Girona, Spain, IFAC-PapersOnLine, Volume 48, Issue 2, 2015, pp. 189 -193, DOI: 10.1016/j.ifacol.2015.06.031
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