## Máximo A. Roa-Garzón Curriculum Vitae

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0www.robotic.dlr.de/maximo.roa

	Group Leader – Senior Research Scientist
<b>Current Position</b>	German Aerospace Center (DLR) – Institute of Robotics and Mechatronics
	2010 - Ongoing
	Head of the group "Robotic Planning and Manipulation", with 12 researchers. Department:
	Autonomy and Teleoperation
	• Development of dexterous grasping and manipulation skills for industrial, service and space robots
	Development of planning and control approaches for humanoid robots
	Management of research projects with academic and industrial partners.
	• Participation in the development of standards for service robotics: ISO TC 299/WG 4 (Robotics
	performance criteria)

Past Positions	Senior Robotics Expert – Project Manager Roboception GmbH Nov 2015 – May 2021
	Specialist R&D Engineer Hewlett Packard (HP) – R&D Department, Barcelona (Spain) / Shanghai (China) 2008 - 2010
	Assistant Professor National University of Colombia - Dept. of Mechanical and Mechatronic Engineering, Bogotá (Colombia) 2000 - 2008

Education and Professional	Project Management Professional (PMP) 2016 Certification, valid until Dec. 2025 Project Management Institute, PMI, USA
Development	PhD in Advanced Automation and Robotics 2004 - 2009 Universitat Politècnica de Catalunya (UPC). Barcelona, Spain Thesis: Grasp planning methodology for 3D arbitrary shaped objects (Summa Cum Laude)
	DEA — System Engineering and Automation 2004 - 2006 Universitat Politècnica de Catalunya (UPC). Barcelona, Spain
	M.Sc. –Industrial Automation 2001 - 2004 National University of Colombia. Bogotá, Colombia Thesis: Modeling and simulation of bipedal walk (Summa Cum Laude)
	Specialist (Master) in Astronomy 1999 - 2001 National University of Colombia. Bogotá, Colombia Thesis: Asteroid entry into planetary atmospheres
	Mechanical Engineering (5-year program, equiv. to German Diplom) 1993 - 1998 National University of Colombia. Bogotá, Colombia Thesis: Leaf Springs Simulation using Finite Element Method

	<ul> <li>Journals: IEEE Robotics and Automation Letters (Associate Editor 2015-2018: Guest Editor 2019)</li> </ul>
Peer Reviewer / Scientific Committees	2021), IEEE Trans. Robotics (Distinguished reviewer 2013), IEEE Robotics and Automation Magazine (Guest Editor 2020), Advanced Robotics (Guest Editor in 2017), Frontiers in Robotics and AI (Guest Editor 2021), Science Robotics, Int. Journal Robotics Research, IEEE Trans. Automation Science and Engineering, IEEE Trans. on Systems, Man and Cybernetics – Part A: Systems and Humans, Part C: Applications and review, Autonomous Robots, IEEE Trans. Mechatronics, IEEE Trans. Haptics, J. Systems and Control Engineering, J. Intelligent and Robotic Systems, ASME J. Mechanisms and Robotics, KI - Künstliche Intelligenz, Robotics and CIM, Meccanica – Int. J. Theoretical and Applied Mechanics.
	<ul> <li>Conferences: IEEE/RSJ Int. Conf. Intelligent Robots and Systems – IROS (Associate Editor, 2015-2022), IEEE Int. Conf. Robotics and Automation – ICRA (Associate Editor, 2019-2020), Robotics Science and Systems – RSS, IEEE-RAS Int. Conf. Humanoid Robots – HUMANOIDS, IEEE Conf. Automation Science and Engineering – CASE, IEEE/RAS-EMBS Int. Conf. Biomedical Robotics and Biomechatronics – BIOROB, IFAC Symposium on Mechatronics, IFAC World Conference, Int. Symp. On Robotics Research – ISRR, Int. Symp. Experimental Robotics – ISER, IEEE Int. Conf. Emerging Technologies and Factory Automation - ETFA.</li> </ul>
	• Evaluation Committees: EU commission/EU projects/EU cascade-funding projects (since 2016), EIT (European Institute of Innovation, since 2020), DAAD (German Academic Exchange Service, since 2018) Peer reviewer for Italian Ministry of Education, Universities and Research (Ministero dell'Istruzione, dell'Università e della Ricerca, since 2014), Peer review for NSERC (National Sciences and Engineering Research Council of Canada, since 2017), Peer review for ARIA (Advance Research and Invention Agency - UK, since 2024), IEEE RAS Review Committee for Technical Committees (2015), peer reviewer for Colciencias (Colombian Organization for Science, Technology and Innovation, 2006-2015), Colombian Contest Otto de Greiff for best undergrad thesis (2007)
	<ul> <li>Ph.D. Evaluation Committees: University of Genoa - Italian Institute of Technology – Italy (2023, 2018), University of Pisa – Italy (2023, 2015), University of Zaragoza (2023), KTH – Royal Institute of Technology – Sweden (2022, 2020, 2016), Université Paris-Saclay - France (2022), , Polytechnical University of Catalunya – Spain (2021, 2020, 2019), LIRMM – France (2020), University Jaume I – Spain (2020, 2018), University of Strathclyde (2020), Aalto University – Finland (2018), U. Carlos III – Spain (2016).</li> </ul>
	DLR Senior Scientist Award. June 2021.
Honors and	Best Paper Award 2020, IEEE Robotics and Automation Magazine. Paper: Humanoid Robots in
Awards	Aircraft Manufacturing: The Airbus use cases.
	<ul> <li>Finalist, Best Paper Award on Safety, Security, and Rescue Robotics at the IEEE/RSJ Int. Conf.</li> </ul>
	Intelligent Robots and Systems – IROS, Madrid, Spain. 2018.
	Finalist, Best Paper Award on Safety, Security, and Rescue Robotics at the IEEE/RSJ Int. Conf.
	Intelligent Robots and Systems – IROS, Vancouver – Canada, 2017. Best Video Award WBC 2016, IEEE-BAS Technical Committee on Whole-Body Control
	<ul> <li>Senior Member IEEE (Institute for Electrical and Electronic Engineers), July 2015.</li> </ul>
	Best Video award. IEEE-RAS Int. Conf. on Humanoid Robots, Madrid, Spain, 2014.
	Distinguished Reviewer, IEEE Trans. Robotics, 2013.
	<ul> <li>Best Paper Award - COTESYS: IEEE Int. Symp. Robot and Human Interactive Communication - RO- MAN Paris - France 2012</li> </ul>
	<ul> <li>Best Paper Award. IEEE-RAS Int. Conf. on Humanoid Robots. Bled - Slovenia. 2011</li> </ul>
	<ul> <li>Scholarships for Ph.D. Studies: Alban (European Union Programme of High Level Scholarships for Latin America, 2004-2007), and Colfuturo (Colombian foundation for the support of graduate studies, 2007-2008)</li> </ul>
	<ul> <li>Grant IEEE-RAS/IFRR - Summer School of Robotics Science on "Haptic Interaction", 2006.</li> </ul>
	<ul> <li>Best Mechanical Engineer in the 1998 class: awarded with a scholarship for graduate studies – Universidad Nacional de Colombia, 1999-2001.</li> </ul>

	Journal Special Issues
<b>Organization of</b>	IEEE/ASME Transaction on Mechatronics. Focused section on Smart Actuation and Multi-Modal
academic events	Sensing Systems for Mechatronics Applications. To be published in June 2025.
	IEEE RA-L. Robotic Grasping and Manipulation Challenges and Progress. Published: Dec 2021.
	<ul> <li>Frontiers in Robotics and AI. Planning, Control and Perception of Soft Robotics End-Effectors.</li> </ul>
	Published: July 2021.
	• IEEE RAM. Emerging Paradigms for Robotic Manipulation: from the Lab to the Productive World.
	Published: June 2021.
	IEEE RA-L. Benchmarking Protocols for Robotic Manipulation. Published: February 2020.
	Advanced Robotics: Advanced Manipulation. Published: November 2017.
	Competitions
	<ul> <li>ICRA 2024. Robotic Grasping and Manipulation Competition. Yokohama, Japan.</li> </ul>
	ICRA/IROS 2022. 5th Robotic Grasping and Manipulation Competition. Philadelphia, USA.
	IROS 2020 Open Cloud Robot Organization Challenge (OCRTOC). Virtual event.
	IROS 2020. 4th Robotic Grasping and Manipulation Competition. Virtual event.
	IROS 2019. 3rd Robotic Grasping and Manipulation Competition. Macau, China.
	IROS 2018 Mobile Manipulation Hackathon. Madrid, Spain.
	IROS 2017. 2nd Robotic Grasping and Manipulation Competition. Vancouver, Canada.
	<ul> <li>IROS 2016. 1st Robotic Grasping and Manipulation Competition. Daejeon, Korea.</li> </ul>
	Workshops
	<ul> <li>Workshop: In-Space Servicing, Assembly &amp; Manufacturing (ISAM), Shaping a Future, Safe and Suctainable Space Ecosystem? IAC 2024, Milan, Italy.</li> </ul>
	Sustainable Space Ecosystem TAC 2024, IVIIIan, Italy.
	VVORSHOP. Advances in Orbital Robotics. In Orbital Manipulation, servicing and Assembly ISPARO 2024. Luxombourg.
	ISPARO 2024, LUXET IDOULY. Markshap: "Compliant Pahat Maninulation II: Challenges and New Opport unities" ICPA 2022
	<ul> <li>Workshop. Compilant robot ivial lipulation II. Challenges and New Opportunities . ICRA 2025. London LIK</li> </ul>
	Workshon: "Emerging Paradigms for Assistive Robotic Maninulation: From Research Labs to the
	Real World" ICRA 2023 London UK
	<ul> <li>Workshop: "Compliant Robot Manipulation: Challenges and New Opportunities". ICRA 2022.</li> </ul>
	Philadelphia, USA.
	Forum: "Robotic Grasping and Manipulation - Challenges and Progress." IROS 2021. Virtual
	forum.
	• Workshop: "Emerging Paradigms for Robotic Manipulation: From the Lab to the Productive World
	II". ICRA 2021. Virtual workshop.
	Workshop: "Cloud-based competitions and benchmarks for robotic manipulation and grasping."
	ICRA 2021. Virtual workshop.
	• Workshop: "Shaping the quality metric of a grasp with the manipulation task." ICRA 2020. Paris,
	France.
	Vvorksnop: "Emerging Paradigms for Robotic Manipulation: From the Lab to the Productive
	World. KSS 2019. Ffelburg, Germany.
	<ul> <li>Workshop. World Perception for Autonomous Applications in Agile Manufacturing. European Robotics Forum 2019. Rucharost. Romania</li> </ul>
	<ul> <li>Workshon: "The Overlooked barrier. Change Management during Robotization " European</li> </ul>
	Robotics Forum 2019 Bucharest Romania
	<ul> <li>Workshop "Robotic Assembly – Recent Advancements and Opport unities for Challenging R&amp;D"</li> </ul>
	IEFE Int Conf Automation Science and Engineering – CASE 2018 Munich Germany
	Workshop "Development of Benchmarking Protocols for Robot Manipulation" IEEE/RSI Int Conf
	Intelligent Robots and Systems – IROS 2017. Vancouver. Canada
	Workshop "Evaluation and Benchmarking of Underactuated and Soft Robotic Hands". IEEE/RSJ
	Int. Conf. Intelligent Robots and Systems – IROS 2016. Daejeon, Korea.
	Other academic events
	• SII 2026: IEEE/SICE Int. Symp. On System Integration. Workshop chair. Jab 2026, Cancun, Mexico.
	ISPARO 2024: Int. Conf. on Space Robotics. Conference Board. June 24-27 2024, Luxembourg.
	IEEE Summer School on Soft Manipulation, July 2017. Chiemsee, Germany.
	VI Nat. Conf. on Finite Elements and Numerical Modelling (VI Congreso Nacional de Elementos
	Finitos y Modelamiento Numérico), 2002. Bogotá, Colombia.

	"From Ground to Space Robotic Manipulation." XI Seminar on Automation. Sep 18, 2024
Invited tolks	Ponavan, Colombia
	"Toward In-Space Operations and Services " II Central American Space Conference CEC 2024. Sen
(2017-2024)	10 2024. Guatemala City Guatemala
	"Design and control of multi-nurrose functional hands" and Doctoral School on Robotics and
	Intalligent Machines - DRIMS2 6 Sen 2024 Volterra Italy
	" (Cripital Polotics," Panal at the XIV National Automatic Days (Jornadas de Automatica), 5 Son
	Orbital Robolics. Farei al life XLV National Automatic Days (jornauas de Automatica). 5 Sep     2024. Malaga, Spain
	2024. Malaga, Spain.
	<ul> <li>Notors for supporting numan expansion in space. space reflaissance international, webinal, 4</li> </ul>
	Warch, 2024. Unine.
	<ul> <li>"Robotic Ivianipulation, Assembly and Servicing in Space." Assembling Large intrastructures in Supervising latelling and heater IPOS Modelle and 1 Oct 2022. Detailed USA</li> </ul>
	space using intelligent kobots, IKOS VVorkshop, T Oct 2023. Detroit, USA.
	"Design, control and performance of multi-fingered robotic hands." Conference on Integrated
	Systems in Medical Jechnologies. Sep 14, 2023. Erlangen, Germany
	"Robotic Manipulation for On-Orbit Servicing." IEEE FISAI 2023. April 3, 2023. Online.
	"Application of Benchmark Protocols to the Design of the CLASH hand." Benchmarking in Robotic
	Manipulation. CoRL Workshop, 15 December 2022, Auckland, New Zealand.
	• "Robotic Manipulation for Space Applications." Colombia in Space 2022. December 7, 2022.
	Online.
	<ul> <li>"Environment-Aware Manipulation Strategies for a Variable Stiffness Hand." The Role of</li> </ul>
	Uncertainty and How it is tackled in Robotic Grasping and Manipulation. IROS Workshop, 27
	October 2022. Kyoto, Japan.
	"Mobile Manipulation for In-Space Assembly and Servicing Operations." Mobile Manipulation and
	Embodied Intelligence (MOMA). IROS Workshop, 23 October 2022. Kyoto, Japan.
	"Robotic Manipulation In and From Space: Challenges and Perspectives." Control Estimation and
	Modelling Practice for Robotic Applications in Challenging Environments. ECC Workshop, 12 July
	2022. London, UK.
	"Robotics for On-Orbit Servicing, Assembly and Manufacturing." Colombia in Space 2021.
	December 2, 2021. Online.
	"Compliant grasping: Exploiting Mechanical Intelligence and Environmental Constraints." 14th Int.
	Workshop on Human-Friendly Robotics. October 29, 2021. Online.
	"Influence of benchmark protocols in the design of a novel end effector." Benchmarking of
	Robotic Grasping and Manipulation: protocols, metrics and data analysis. IROS Workshop. Sep 27,
	2021. Online.
	"Environment-aware manipulation planning for a variable stiffness hand." Bridging the gap
	between data-driven and analytical physics-based grasping and manipulation II. ICRA workshop.
	May 31, 2021. Online.
	"Compliant end-effectors for food handling: the CLASH hand." Task-Informed Grasping: Agri-
	Food Manipulation. ICRA workshop. May 31, 2021. Online.
	"Robotics in Space Exploration: Past and Current Developments." Colombian Space Marathon
	2020. National University of Colombia. 15 Dec 2020. Online.
	"Industry 4.0 for Ground- and Space-Based Applications." 5th Conference on Science and Applied
	Technology. TecnNM/CENIDET - Mexico. 18 Nov 2020. Online.
	• "In-situ assembly of a large space telescope." Workshop on Robotic In-Situ Manufacturing.
	Assembly and Servicing. IROS, Las Vegas, USA. October 25 2020.
	"Synergies for ground- and space-based assembly." Workshop on Space: The next flexible
	assembly line. European Robotics Forum – ERF. Malaga, Spain. March 3, 2020.
	"Compliant multi-contact interactions in real-world applications." KTH Doctoral Seminar.
	Stockholm, Sweden. Feb. 17, 2020.
	"Robustness and performance of CLASH, a compliant sensorized hand with variable stiffness."
	Workshop on Manipulation through contacts. IROS, Macau, China. Nov. 4, 2019.
	"Autonomous assembly for lot size one." Workshop on Current limits and potentials of
	autonomous assembly. IROS, Macau, China. Nov. 4, 2019.
	"Robust manipulation in logistic environments using the CLASH hand" Workshop on New
	Challenges in Humanoid Grasping and Manipulation. Int. Conf. Humanoid Robots, Toronto.
	Canada. Oct. 15, 2019.
	"Dexterous Grasping and Manipulation Skills for Robots". Autonomous Machines World. Berlin
	Germany, July 1, 2019.
	"From Ground to Space-Based Robotic Assembly" Workshop on Robotic Technology for In-Space
	Assembly. Int. Conf. Robotics and Automation – ICRA. Montreal. Canada. May 23, 2019
	"Robotic Applications for Industry 4.0" IX Int. Conf. Mechanical Engineering. Mechatronics and
	Automation - CIMM 2019. Bogota, Colombia. May 9. 2019.

"Use cases in perception for agile manufacturing". Workshop on World Perception for Autonomous Applications in Agile Manufacturing: European Robotics Forum - ERF. Bucharest, Romania. March 22, 2019.
"Perception and manipulation for logistic tasks". Workshop on From Robotic Dexterous
Manipulation to Manual Intelligence. Int. Conf. Humanoid Robots. Beijing, China. Nov. 6, 2018.
"Development and applications of TORO – a torque controlled humanoid robot". PAL Robotics.
Barcelona, Spain. Oct. 11, 2018.
"Playing with variable stiffness in grasping tasks". Workshop on Task Informed Grasping for Rigid
and Deformable Object Manipulation. IROS, Madrid, Spain. Oct. 1, 2018.
• "Measuring grasp performance: from labs to standardization". Workshop on Hands in the real
world. IROS, Madrid, Spain. Oct. 1, 2018
<ul> <li>"Easy-to-use 3D vision for robotic manipulation". Workshop on Examining Sensing Modalities for Robust and Dexterous Object Manipulation. IROS, Madrid, Spain. Oct. 1, 2018.</li> </ul>
"Robotic perception and manipulation for Agile Production". Skolkovo Robotics Forum. Moscow,
Russia. Apr. 24, 2018.
• "Robot perception and manipulation for industry 4.0". Global Robot Expo GR-EX. Madrid, Spain.
Apr. 18, 2018.
• "Multi-contact balancing of humanoid robots". Robotics 360°: Advances and Perspectives, Italian
Institute of Technology, IIT. Genova, Italy. Feb. 7 2018.

	EROSS IOD: European Robotic Orbital Support Services +
Posoarch	2023-2025, Principal Investigator (Total budget: 30M EUR)
Research Due le ste	Funded by the European Comission, Program Horizon Europe, Grant No. 101082464
Projects –	Consortium <sup>-</sup> Thales Alenia Space (France Spain Italy Switzerland) DLR (Germany) SENER (Spain)
European Level	Space Application Services (Belgium), PIAP (Poland), TIPIK (Belgium), GMV (Spain, Portugal), SINTEF
	(Norway) EXOTRALI (France) Kongsherg (Norway) NRE (Belgium) Almatech (Switzerland) CSEM
	(Switzerland)
	ASCEND: European Robotic Orbital Support Services +
	2023-2024 Principal Investigator (Total budget: 2M FUR)
	Europed by the European Comission Program Horizon Europe Grant No. 101082517
	<ul> <li>Consortium: Thales Alenia Space (France, Spain), DLR (Germany), CloudFerro (Poland), VITO</li> </ul>
	(Belgium), HPE (Belgium), Orange (Belgium), Ariane (France), Airbus (Germany, France), Carbone4 (France)
	INTELLIMAN: European Robotic Orbital Support Services +
	2022-2026 Principal Investigator (Total budget: 6M FUR)
	Europed by the European Comission Program Horizon Europe Grant No. 101070136
	<ul> <li>Consortium: II Bologna (Italy) DIR (Germany) FAIT Francen (Germany) LIPC (Spain) II Genova</li> </ul>
	(Italy) LI Campania (Italy), ELIRECAT (Spain) INAII (Italy) ELVEZ (Slovenia) OCADO (LIK) BavEOR
	(Germany) IDIAP (Switzerland) 11 Zurich (Switzerland)
	SOFTENABLE: European Robotic Orbital Support Services +
	2022-2026, Principal Investigator (Total budget: 3M EUR)
	• Funded by the European Comission, Program Horizon Europe, Grant No. 101070600.
	Consortium: KTH (Sweden), DLR (Germany), CSIC (Spain), Technion (Israel), OCADO (UK),
	Fundacio Clinic/Hospital Clinic Barcelona (Spain)
	EROSS+: European Robotic Orbital Support Services +
	2021-2023, Principal Investigator (Total budget: 3M EUR)
	• Funded by the European Comission, Program Horizon 2020, Grant No. 101004346.
	Consortium: Thales Alenia Space (France). DLR (Germany). GMV (Spain). PIAP (Poland). SINTEF
	(Norway), Thales (Italy)
	ODIN: Open Digital Industrial and Networking Pilot Lines Using Modular Components for Scalable
	Production
	2021-2024, Principal Investigator (Total budget: 7M EUR)
	• Funded by the European Comission, Program Horizon 2020, Grant No. 101017141.
	Consortium: LMS (Greece), Tecnalia (Spain), KTH (Sweden), TAU (Finland), COMAU (Italy), PILZ
	(Spain), Roboception (Germany), Visual Components (Finland), Intrasoft (Luxembourg), S21SEC
	(Spain), AIC (Spain), DGH (Spain), PSA (France), Aerotecnic (Spain), Whirlpool (Italy)
	PULSAR: Prototype of an Ultra-Large Structure Assembly Robot
	2019-2021, Principal Investigator (Total budget: 4M EUR)
	• Funded by the European Comission, Program Horizon 2020, Grant No. 821858.
	• Consortium: Magellium (France), GRAAL Tech (Italy), CSEM (Switzerland), DLR (Germany), DFKI
	(Germany), SAS (Belgium), ONERA (France), Thales (France)

MOSAR: Modular Spacecraft Assembly and Reconfiguration
2019-2021. Co-Investigator (Total budget: 4M EUR)
• Funded by the European Comission, Program Horizon 2020, Grant No. 821996.
<ul> <li>Consortium: SAS (Belgium), DLR (Germany), DFKI (Germany), GMV (Spain), Thales (UK), Sitael</li> </ul>
(Italy) MAG SOAR (Spain) U Strathclyde (UK) Thales (France) Ellidiss (France)
THOMAS' Mobile Dual Arm Robotic Workers with Embedded Cognition for Hybrid Reconfigurable
Manufacturing Systems
2016-2020. Principal Investigator (Total budget: 4.5M EUR)
Eunded by the European Comission Program Horizon 2020 Grant No. 723616
Consortium: PSA Peugeot (France). Robocention (Germany). Techalia (Spain). SICK (Germany)
DGH (Spain), Aernnova (Spain), Intrasoft (Luxembourg), LMS (Greece)
COMANOID: Multi-contact Collaborative Humanoids in Aircraft Manufacturing
2015-2019. Principal Investigator (Total budget: 4.5M EUR)
• Funded by the European Comission, Program Horizon 2020, Grant No. 645097.
<ul> <li>Consortium: CNRS (France). DLR (Germany). INRIA (France). Università di Roma "La Sapienza"</li> </ul>
(Italv). Airbus (EU/France)
SOMA: Soft Manipulation
2015-2019, Principal Investigator (Total budget: 7M EUR)
• Funded by the European Comission, Program Horizon 2020, Grant No. 645599.
• Consortium: TU Berlin (Germany), U. Pisa (Italy), IIT (Italy), DLR (Germany), IST (Austria), Ocado (UK),
Disney Research (Switzerland).
SMErobotics: European Robotics Initiative for Strengthening the Competitiveness of SMEs in
Manufacturing
2012-2016, Principal Investigator (Total budget: 12M EUR)
<ul> <li>Funded by the European Comission, Program FP7, Grant No. 287787</li> </ul>
Consortium: Fraunhofer-Institut für Produktionstechnik und Automatisierung - IPA (Germany),
COMAU Robotics (Italy), DLR (Germany), Danish Technological Institute – DTI (Denmark),
Gesellschaft für Produktionssysteme – GPS (Germany), GÜDEL Robotics (Germany), KUKA
Laboratories (Germany), REIS Robotics (Germany), FORTISS (Germany), Lund University (Sweden)
GeRT: Generalizing Robot Manipulation Tasks
2010-2013, Investigator
Funded by the European Comission, Program FP7, Grant No. 248273
Consortium: DLR (Germany), University of Birmingham (United Kingdom), University of Örebro
(Sweden), Max Planck Institute for Biological Cybernetics (Germany), Technische Universität
Darmstadt (Germany)
DEXIMARI: DEXterous and autonomous dual-arm/hand robotic manipulation with sMARI sensory-
motor skills: A bridge from natural to artificial cognition
2008-2012, Investigator
Funded by the European Comission, Program FP7, Grant No. 216239
Consortium: Universita di Napoli Federico II (Italy), CNRS (France), DLR (Germany), Universität     Kadurda (Germany), Universität das Geoducida (Germany), CNRS (France), DLR (Germany), Universität
Karisrune (Germany), Universitat des Saarlandes (Germany), Seconda Universita degli Studi di
ivapoli (italy), Universita di Bologna (italy), Oxford Metrics Group - Vicon Systems (UK)

	https://rmc.dlr.de/rm/de/staff/maximo.roa/
Scientific	
Publications	

Additional Information	<ul> <li>Professional Associations</li> <li>IEEE, Institute for Electrical and Electronic Engineers, Robotics and Automation Society (Member since 2003; elected Senior Member in 2015)</li> <li>Co-chair of the IEEE-RAS Technical Committee on Mobile Manipulation (2013-2019)</li> <li>Co-founder of the IEEE-RAS Technical Committee on Robotic Hands, Grasping and Manipulation (2014)</li> <li>ASME, American Society of Mechanical Engineers (since 2016).</li> <li>PMI, Project Management Institute (since 2016)</li> <li>IAU, International Astronomical Union (since 2015)</li> </ul>
	<ul> <li>Languages</li> <li>Mother tongue: Spanish</li> <li>Bilingual proficiency: English</li> <li>Professional working proficiency: German, French, Catalan</li> </ul>