Short CV of Giuseppe Carbone Updated: August 2012

Giuseppe Carbone has got the master degree with laude as mechanical engineer on 2000 and the Ph.D. degree on 2004 both at University of Cassino (Italy). Since 1999 he has been member of LARM (Laboratory of Robotics and Mechatronics) at University of Cassino (Italy). Since March 2005 Giuseppe Carbone is Assistant Professor at the Dept. DiCeM, University of Cassino and South Latium, Italy. On May 2010 he has received the National Habilitation as Associate Professor from the Spanish Ministry of Education ANECA. He has been visiting scholar at Technical University of Braunschweig, Germany for six months in the year 1999 and at Humanoid Robotics Institute, Waseda University, Tokyo, Japan for about one year during the years 2002-2005. His research interests cover aspects of Mechanics of Manipulation and Grasp, Mechanics of Robots, Mechanics of Machinery. He has been invited to give seminars on his research activity at more than 20 well-known international Universities including Carlos III University of Madrid (Spain) where he also gives classes on Mechanics of Machinery since 2009. He is author and/or co-author of about 200 papers that have been published in Proceedings of well-known peer-reviewed International Journals or Conferences. He has been invited to review papers for more than 60 well-known international Conferences and Journals. He has been involved in the organization or he has been member of the International Program Committee for about 10 International Conferences. He is currently Associate Editior of the International Journal Robotica (Cambridge) and Editor in Chief of Topics Robotics/Parallel Robots/Grasping for the Journal of Control Engineering and Technology. He is currently participating in the 7th Framework European Projects “Thinkmotion” and “ERRIC”. He is also Unit coordinator of the 7th Framework European Project “MAGDRIVE”. Giuseppe Carbone has received several awards including three IFToMM “Young Delegate” Awards, a “JSPS Short-Term Invitation Fellowship”, several Conference Best Paper Awards. He has been Associated Editor for IEEE ICRA 2011, IEEE/RSJ IROS 2011, IEEE/RSJ IROS 2012, IEEE ICRA 2013. Since 2012 he is member of the Steering Committee of the International Journal Information Science and Technology and member of the Editorial Board of Scientific World Journal (Area Mechanical Engineering). Since 2010 he has been nominated Senior Member of IEEE.

Curriculum vitae et studiorum of Giuseppe Carbone

PUBLICATIONS

1. Carbone G., Ceccarelli M., Kerle H., "Designing Mechanisms for Two-finger Microgrippers", 10th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2001, Vienna, CD-Proc. paper RD-021, 2001.
2. Cuadrado J., Naya M.A., Ceccarelli M., Carbone G., "An Optimum Design Procedure for Two-Finger Grippers: A Case of Study", 2nd Workshop on Computational Kinematics CK 2001, Seoul, pp.21-33, 2001.
3. Carbone G., Ceccarelli M., Teolis M., "A Numerical Evaluation of the Stiffness of CaHyMan (Cassino Hybrid Manipulator)", 2nd Workshop on Computational Kinematics CK 2001, Seoul, pp.145-154, 2001.
4. Carbone G., Lanni C., Ceccarelli M., López-Cajún C.S., "Dynamic Effects of Curvature Change in the Profile of Two Circular-Arc Cams", V Congreso Iberoamericano de Ingegneria Mecanica CIDIM2001, Mérida, pp.1247-1252, 2001.
5. Lanni C., Ceccarelli M., Figliolini G., Ottaviano E., Carbone G., "A Study of Feasibility of a Laboratory Test-Bed for Brake Systems in Industrial Vehicles", V Congreso Iberoamericano de Ingegneria Mecanica CIDIM2001, Mérida, pp.645-650, 2001.
6. Carbone G., Ceccarelli M., Kerle H., Raatz A., "Design and Experimental Validation of a Microgripper", Fuji International Journal of Robotics and Mechatronics, Vol.13, n.3, pp.319-325, 2001.
7. Carbone G., Ceccarelli M., Penisi O., "An Optimum Design of a Mechanism for Microgrippers", 16th Brazilian Congress of Mechanical Engineering COBEM2001, Uberlandia, pp.194-203, 2001.
8. Carbone G., Ceccarelli M., Takanishi A, Lim H.O.,"A Study of Feasibility for a Low-Cost Humanoid Robot", IEEE-RAS International Conference on Humanoid Robots HUMANOIDS 2001, Tokyo, pp.351-358, 2001.

2bis Cuadrado J., Naya M.A., Ceccarelli M., Carbone G., "An Optimum Design Procedure for Two-Finger Grippers: A Case of Study", Electronic Journal of Computational Kinematics EJCK, http://www-sop.inria.fr/coprin/EJCK/EJCK.html, vol.1, n.1, paper-03, 2002.

3bis Carbone G., Ceccarelli M., Teolis M., "A Numerical Evaluation of the Stiffness of CaHyMan (Cassino Hybrid Manipulator)", Electronic Journal of Computational Kinematics EJCK, http://www-sop.inria.fr/coprin/EJCK/EJCK.html, vol.1, n.1, paper-14, 2002.

9. Carbone G., Wolf A., Ceccarelli M., Shoham M., "Application of Serial - Parallel Robot Architectures for Surgical Tasks: a Study of Feasibility", 5th Israeli Symposium on Computer-Aided Surgery, Medical Robotics and Medical Surgery ISRACAS'02, Tel-Aviv, 2002.
10. Ceccarelli M., Carbone G, "A Stiffness Analysis for CaPaMan (Cassino Parallel Manipulator)", Mechanism and Machine Theory, vol.37, n.5, pp.427-439, 2002.
11. Ceccarelli M., Cigola M., Ottaviano E., Gallozzi A., Carbone G., Pelliccio A., "A Study of Feasibility of Using Robots in Architecture Analysis and Survey of a Historical Pavement", 11th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2002, Belanthofüred, pp.113-118, 2002.
12. Carbone G., Marini G., Ceccarelli M., "Experimental Validation and Tests of Operation Characteristics of a Parallel-Serial Manipulator", 14th CISM-IFToMM Symposium on Theory and Practice of Robots and Manipulators ROMANSY 14, Udine, CD-Proceedings, 2002; ROMANSY 14, Springer-Verlag, Wien, pp.331-338, 2002.
13. Carbone G., Teolis M., Ceccarelli M., Ottaviano E., "An Experimental Performance Evaluation of a Parallel-Serial Manipulator", International Symposium on Multibody Systems and Mechatronics MuSME2002, Mexico City, Paper n. M15, 2002.
14. Penisi O.H., Carbone G., Ceccarelli M., "Optimum Design and Testing of Mechanisms for Two-Finger Grippers", International Symposium on Multibody Systems and Mechatronics MuSME2002, Mexico City, Paper n. M03, 2002.
15. Ottaviano E., Carbone G., Ceccarelli M., "Workspace Analysis and Performances of a Binary Actuated Parallel Manipulator with Flexural Joints", International Symposium on Multibody Systems and Mechatronics MuSME2002, Mexico City, Paper n. M10, 2002.
16. Carbone G., Civitillo R., Ceccarelli M., "Design and Test of an Articulated Mechanism for a 1-Dof Anthropomorphic Finger", ASME Design Engineering Technical Conferences DETC'02, Montreal, paper MECH-34300, 2002.
17. Ceccarelli M., Ottaviano E., Carbone G., "A Study of Feasibility for a Novel Parallel-Serial Manipulator", Fuji International Journal of Robotics and Mechatronics, Vol.14, n.3, pp.304-312, 2002.
18. Ceccarelli M., Ottaviano E., Carbone G., Progettazione ed esperienze di laboratorio di un manipolatore parallelo per varie applicazioni", 1ª Conferenza Nazionale ed Exhibition su Sistemi Autonomi Intelligenti e Robotica Avanzata ENEA, Frascati, pp.53-62, 2002.

13bis Carbone G., Teolis M., Ceccarelli M., Ottaviano E., "An Experimental Performance Evaluation of a Parallel-Serial Manipulator", International Journal of Mechanics and Control, vol.04, n.01, pp.29-39, 2003.

14bis Penisi O.H., Carbone G., Ceccarelli M., "Optimum Design and Testing of Mechanisms for Two-Finger Grippers", International Journal of Mechanics and Control, Vol.03, n.01, pp.9-20, 2002.

15bis Ottaviano E., Carbone G., Ceccarelli M., "Workspace Analysis and Performances of a Binary Actuated Parallel Manipulator with Flexural Joints", Proc. IMechE Part C: Journal of Mechanical Engineering Science, Vol.217, pp.313-330, 2003.

19. Carbone G., Ceccarelli M., Ottaviano E., Checcacci D., Frisoli A., Avizzano C.A., Bergamasco M., "A Study of Feasibility for a Macro-Milli Serial-Parallel Robotic Manipulator for Surgery Operated by a 3 Dofs Haptic Device", 12th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2003, Cassino, paper 006RAAD03, 2003.
20. Ceccarelli M., Jauregui Becker J.M., Parada Puig J.E., Nava Rodriguez N.E., Lanni C., Carbone G., "Experimental Activity for Designing a Hand with 1 Dof Anthropomorphic Fingers of Human Size", 12th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2003, paper 009RAAD03, Cassino, 2003.

21. Carbone G., Lim H.O., Takanishi A., Ceccarelli M., "Optimum Design of a New Humanoid Leg by Using Stiffness Analysis", 12th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2003, Cassino, paper 045RAAD03, 2003.
22. Carbone G., Jeckel M., Havlík S., Ceccarelli M., "An Optimum Multi-Objective Design Procedure for Microgripping Mechanisms", 12th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2003, Cassino, paper 055RAAD03, 2003.
23. Ottaviano E., Carbone G., "An Optimum Multi-Objective Design Procedure for Parallel Manipulators", 12th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2003, Cassino, paper 061RAAD03, 2003.

23bis Ottaviano E., Carbone G., "An Optimum Multi-Objective Design Procedure for Parallel Manipulators", International Journal of Mechanics and Control, vol.04, n.02, pp.57-62, 2003.

24. Aguirre G., Acevedo M., Carbone G., Ottaviano E., "Kinematic and Dynamic Analysis of a 3 DOF Parallel Manipulator by Symbolic Formulations", ECCOMAS Thematic Conference Multibody Dynamics 2003, Lisbon, paper MB2003-010, 2003.
25. Penisi O., Ceccarelli M., Carbone G., "Clasificacion de Mecanismos en Pinzas Industriales de Dos Dedos", Revista Iberoamericana de Ingenierìa Mecànica, vol.7, n.1, pp.59-75, 2003.
26. Acevedo M., Carbone G., Aguilar M.F., Ceccarelli M., "Simulación de una Pinza Controlada en Fuerza Empleando Simulink", Revista Iberoamericana de Ingenierìa Mecànica, vol.7, n.1, pp.77-85, 2003.
27. Carbone G., Sugahara Y., Lim H.O., Takanishi A., Ceccarelli M., "Stiffness Performances Estimation for Biped Locomotor WL-15", IEEE/ASME International Conference on Advanced Intelligent Mechatronics AIM 03, Kobe, pp.956-961, 2003.
28. Carbone G., Lim H.O., Takanishi A., Ceccarelli M., "Numerical and Experimental Estimation of Stiffness Performances for the Humanoid Robot WABIAN-RV", IEEE/ASME International Conference on Advanced Intelligent Mechatronics AIM 03, Kobe, pp.962-967, 2003.
29. Carbone G., Takanobu H., Ceccarelli M., Takanishi A., Ohtsuki K., Ohnishi M., Okino A., "Stiffness Analysis for the 6-Dofs Mouth Training Parallel Robot WY-5", IEEE/ASME International Conference on Advanced Intelligent Mechatronics AIM 03, Kobe, pp.1234-1238, 2003.
30. Carbone G., Lim H.O., Takanishi A., Ceccarelli M., "Stiffness Analysis of the Humanoid Robot WABIAN-RIV: Modelling", IEEE International Conference on Robotics and Automation ICRA 2003, Taipei, pp.3654-3659, 2003.
31. Carbone G., Ceccarelli M., Ogura Y., Lim H.O., Takanishi A., "Numerical Simulation for an Optimum Design of a Humanoid Leg Through Stiffness Analysis", 3rd IEEE International Conference on Humanoid Robots HUMANOIDS2003, München and Karlsruhe, paper 3bWalking03, 2003.
32. Ceccarelli M., Jauregui Becker J.M., Parada Puig J.E., Nava Rodriguez N.E., Carbone G., "Diseño y Experimentacion Para un Dedo Articulado Antropomorfo con un Grado de Libertad", VI Congreso Iberoamericano de Engenieria Macánica CIBEM6, Coimbra, pp.857-862, 2003.
33. Carbone G., Ottaviano E., Acevedo M., Ceccarelli M., "Validación Experimental del Modelo Dinámico del Manipuador Parallelo Capaman 2", VI Congreso Iberoamericano de Ingeniería Mecánica CIBEM 6, Coimbra, pp.869-874, 2003.
34. Ceccarelli M., Carbone G., Ottaviano E., Jatsun S., Ponomariov D., "Research of Inertial Properties of System of Robots Puma CaPaMan", Proceedings of VIth International Conference Vibrating Machines and Technology, Kursk, pp.81-89, 2003. (in Russian)

32bis Ceccarelli M., Jauregui Becker J.M., Parada Puig J.E., Nava Rodriguez N.E., Carbone G., "Diseño y Experimentacion Para un Dedo Articulado Antropomorfo con un Grado de Libertad", Journal MetalUnivers, Barcelona, vol.24, pp.224-229, 2004.

35. Carbone G., Ogura Y., Lim H.O., Takanishi A., Ceccarelli M., "Dynamic Simulation and Experiments for the Design of a New Biped Walking Leg Module", Robotica: An International Journal, vol.22, n.1, pp.41-50, 2004.
36. Ceccarelli G., Ottaviano E., Carbone G., "Progettazione e validazione sperimentale di camme a profilo policentrico presso il LARM di Cassino", Workshop 2004 del progetto PRIN "Progettazione e validazione di sistemi di trasmissione a camma", Cassino, Articolo PRIN-CAMS2004-01, 2004.
37. Lanni C., Bianchi A., Carbone G., Ceccarelli M., "Numerical and Experimental Performance Analysis of Cam Profile in Two-Circular-Arc Cams", 11th World Congress in Mechanism and Machine Science IFToMM 03, Tianjin, vol.3, pp.1060-1064, 2004.
38. Carbone G., Ottaviano E., Ceccarelli M., "Experimental Stiffness Evaluation of a Serial-Parallel Macro-Milli Manipulator for Medical Applications", 11th World Congress in Mechanism and Machine Science IFToMM 03, Tianjin, vol.4, pp.1862-1867, 2004.
39. Acevedo M., Aguirre G., Carbone G., Ottaviano E., "A Dynamics Simulation of a 3 Dof Parallel Manipulator", 11th World Congress in Mechanism and Machine Science IFToMM 03, Tianjin, vol.4, pp.1674-1678, 2004.
40. Carbone G, Ceccarelli M., "A Procedure for Experimental Evaluation of Cartesian Stiffness Matrix", 15th CISM-IFToMM Symposium on Robot Design, Dynamics and Control ROMANSY 2004, Montreal, CD Proceedings, paper Rom04-24, 2004.
41. Ceccarelli M., Carbone G., Ottaviano E., "Multi Criteria Optimum Design of Manipulators", VIII Polish National Conference on Robotics, Polanica Zdrój, Plenary Speech, pp.3-20, 2004.
42. Nava Rodriguez N.E., Carbone G., Ottaviano E., Ceccarelli M., "An Experimental Validation of a Three - Fingered Hand With 1 Dof Anthropomorphic Fingers", International Conference on Intelligent Manipulation and Grasping IMG04, Genova, pp.285-290, 2004.
43. Ceccarelli M., Nava Rodriguez N.E., Carbone G., Lopez-Cajùn C., "Optimal Design of Driving Mechanism for a 1 DOF Anthropomorphic Finger", International Symposium on Robotics and Automation ISRA 2004, Querétaro, paper

K1, 2004.

44. Ceccarelli M., Lanni C., Carbone G., "Numerical and Experimental Analysis of Cam Profiles with Circular-Arcs", IX International Conference on the Theory of Machines and Mechanisms, Liberec, Keynote Lecture, pp.189-207, 2004.
45. Carbone G., Lanni C., Ceccarelli M., Incerti G., Righettini P., "Requirements for a Mechatronic Design of Test-Beds for Cams", Mechatronics & Robotics MECHROB 2004, Aachen, pp.326-331, 2004.
46. Carbone G, Ceccarelli M., "A Stiffness Analysis for a Hybrid Parallel-Serial Manipulator)", Robotica: An International Journal, vol.22, pp.567-576, 2004.
47. Ceccarelli M., Carbone G., Lanni C., Ottaviano E., "A Fairly Simple Method to Identify the Curvature of a Cam Profile", ASME International Design Engineering Technical Conferences IDETC'04, Salt Lake City, paper DETC2004-57387, 2004.
48. Carbone G., Takanobu H., Ceccarelli M., Takanishi A., Ohtsuki K., Ohnishi M., Okino A., "Hyper-performances of WY-5 (Waseda Yamanashi 5) Parallel Manipulator", 4th International Conference on Advanced Mechatronics ICAM'04, Asahikawa Hokkaido, pp.389-394, 2004.
49. Nava Rodriguez N.E., Carbone G., Ceccarelli M., "Validacion Experimental de Manos Roboticas", V Congreso Nacional de Ingeniería Mecánica CONIM, Merida, pp. 189-194, 2004.
50. Carbone G, Ceccarelli M., "Design and Operation of a Low-Cost Anthropomorphic Wheeled Leg for Walking Machines", CLAWAR/EURON Workshop on Robots in Entertainment, Leisure and Hobby ELH'04, Vienna, pp.73-78, 2004.
51. Carbone G, Ceccarelli M., "A Mechanical Design of a Low-Cost Easy-Operation Anthropomorphic Wheeled Leg for Walking Machines", The International Journal Robotica & Management, vol.9, n.2, pp.3-8, 2004.
52. Carbone G., Takanobu H., Ceccarelli M., Takanishi A., Ohtsuki K., Ohnishi M., Okino A., "Stiffness Analysis and Experimental Validation for the 6-Dof Jaw Opening-Closing Training Parallel Robot WY-5 (Waseda Yamanashi 5)", Fuji International Journal of Robotics and Mechatronics, Special Issue Hyper Performance Robotics/Mechatronics, vol.16, n.6, pp. 570-578, 2004.
53. Ceccarelli M., Jauregui Becker J.M., Parada Puig J.E., Nava Rodriguez N.E., Carbone G., "Diseño y experimentación de un dedo articulado antropomorfo con un grado de libertad para una mano robótica", Revista Iberoamericana de Ingenierìa Mecànica, vol.8, n.2, 15-24, 2004.
54. Cigola M., Ceccarelli M., Carbone G., Pelliccio A., "Un progetto per l'impiego di robot per il restauro e la conservazione di beni architettonici", XV Congreso de Consevaciòn y Restauraciòn de Bienes Culturales", Murcia, pp.1137-1142, 2004.

41bis Ceccarelli M., Carbone G., Ottaviano E., "Multi Criteria Optimum Design of Manipulators", Bullettin of the Polish Academy of Sciences, Technical Sciences, vol. 53, n.1, pp.9-18, 2005.

43bis Ceccarelli M., Nava Rodriguez N.E., Carbone G., Lopez-Cajùn C., "Optimal Design of Driving Mechanism for a 1 DOF Anthropomorphic Finger", International Journal Applied Bionics and Biomechanics, vol.2, n.2, pp.103-110, 2005.

55. Ceccarelli M., Carbone G., Ottaviano E., "An Optimization Problem Approach for Designing Both Serial and Parallel Manipulators", International Symposium on Multibody Systems and Mechatronics MUSME2005, Uberlandia, paper 03-MUSME05, pp.18-32, 2005.
56. Carbone G., Ceccarelli M., Oliveira P.J., Saramago S.F.P., Carvalho J.C.M., "Optimum Path Planning of CaPaMan (Cassino Parallel Manipulator) by Using Inverse Dynamics", International Symposium on Multibody Systems and Mechatronics MUSME2005, Uberlandia, paper 28-MUSME05, pp.332-343, 2005.
57. Lanni C., Carbone G., Ceccarelli M., Ottaviano E., "Numerical and Experimental Analysis of Radial Cams with circular arc profiles", International Symposium on Multibody Systems and Mechatronics MUSME2005, Uberlandia, paper 34-MUSME05, pp.391-405, 2005.
58. Lanni C., Carbone G., Ottaviano E., Ceccarelli M., "Modelling of Cam Transmissions", 1st International Congress Design and Modelling of Mechanical Systems CMSM'2005, Hammamet, CD Proceedings, Paper n.CMSM05LANNI, 2005.
59. Ottaviano E., Ceccarelli M., Paone A., Carbone G., "A Low-Cost Easy-Operation 4-Cable Driven Parallel Manipulator", IEEE International Conference on Robotics and Automation ICRA'05, Barcellona, pp.4019-4024, 2005.
60. Ceccarelli M., Nava Rodriguez N.E., Carbone G., "Optimal Design of Driving Mechanism in a 1-d.o.f. Anthropomorphic Finger", International Workshop on Computational Kinematics, paper 03CK05, Cassino, 2005; Mechanism and Machine Theory, vol.41, n.8, pp 897-911, 2006.
61. Ceccarelli M., Carbone G, "Numerical and Experimental Analysis of the Stiffness Performance of Parallel Manipulators", 2nd International Colloquium Collaborative Research Centre 562, Braunschweig, pp.21-35, 2005.
62. Carbone G., Ceccarelli M., Cimpoeru I., "Experimental Tests with a Macro-Milli Robotic System", 14th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2005, Bucharest, pp.64-69, 2005.
63. Jatsun S.F., Ponomarev D., Carbone G., Ceccarelli M., "Inertial Performance Estimation for a Macro-Milli Robotic System for Surgery Tasks", 14th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2005, Bucharest, pp.326-331, 2005.
64. Carbone G, Ceccarelli M., "A Serial-Parallel Robotic Architecture for Surgical Tasks", Robotica: An International Journal, vol.23, pp.345-354, 2005.
65. Jeckel M., Havlik S., Carbone G., Ceccarelli M., "Analysis of Compliant Mechanisms. A Modular Concept", 8th International Symposium MECHATRONIKA 2005, Trencianske Teplice, pp.10-16, 2005.
66. Carbone G., Lanni C., López-Cajún C.S., Ceccarelli M., "Numerical and Experimental Simulation of Dynamic Operations of Cams", ECCOMAS Thematic Conference Multibody Dynamics 2005, Madrid, CD Proceedings, paper

MB023, 2005.

67. Carbone G., Ceccarelli M., "Legged Robotic Systems", Cutting Edge Robotics ARS Scientific Book, Wien, pp. 553-576, 2005.
68. Incerti G., Tiboni M., Ceccarelli M., Carbone G., "Dinamica di meccanismi a camma veloci azionati da motori in corrente continua", XVII Congresso di Meccanica Teorica e Applicata AIMeTA 2005, Firenze, CD Proceedings, paper n.29, 2005.
69. Carbone G., Ceccarelli M., Kerle H., "Ein Optimierungsverfahren für den Entwurf von Kurvenprofilen", 6. IGM-Kolloquium Getriebetechnik, Aachen, pp.67-82, 2005.
70. Carbone G., Ceccarelli M., Molinaro F., Ottaviano E., "A Modular Design of an Easy-Operation Robotic Leg", 2nd European Conference on Mobile Robots ECMR'05, Ancona, pp.230-235, 2005.
71. Cigola M., Pelliccio A., Salotto O., Carbone G., Ottaviano E., Ceccarelli M., "Application of robots for inspection and restoration of historical sites", 22nd International Symposium on Automation and Robotics in Construction ISARC 2005, Ferrara, paper 37, 2005.
72. Nava Rodriguez N.E., Ceccarelli M., Carbone G., "Proyecto y Animación de un Nuevo Robot Humanoide de Bajo Costo", 7° Congreso Iberoamericano de Ingeniería Mecánica CIBIM7, Mexico City, paper 318, 2005.
73. Ceccarelli M., Carbone G., Ottaviano E., Lanni C., "An optimum design of cam profiles with circular arcs", CT2005 International Workshop on Cam Transmissions: functional and dynamical aspects, Napoli, paper 02-CT05, 2005.
74. Carbone G., Lanni C., Ceccarelli M., Incerti G., Tiboni M., "On the identification of lumped parameters for cam transmissions", International Workshop on Cam Transmissions: functional and dynamical aspects CT2005, paper 03-CT05, Napoli, 2005.
75. Ceccarelli M., Lanni C., Carbone G., "A fairly simple method to identify the curvature of a cam profile", International Workshop on Cam Transmissions: functional and dynamical aspects CT2005, Napoli, paper 04-CT05, 2005.
76. Aiman Musa M.O., Ogura Y., Kondo H., Morishima A., Carbone G., Ceccarelli M., Lim H.O., Takanishi A., "Development of A Humanoid Robot Having 2-DOF Waist and 2-DOF Trunk", IEEE-RAS International Conference on Humanoid Robots Humanoids2005, Tsukuba, pp.333-338, 2005.

57bis Lanni C., Carbone G., Ceccarelli M., Ottaviano E., "Numerical and Experimental Analysis of Radial Cams with circular arc profiles", IMechE Part C: Journal of Mechanical Engineering Science, vol.220, n.1, pp. 111-126, 2006.

60bis Ceccarelli M., Nava Rodriguez N.E., Carbone G., "Optimal Design of Driving Mechanism in a 1-d.o.f. Anthropomorphic Finger", Mechanism and Machine Theory, vol.41, n.8, pp 897-911, 2006.

77. Carbone G., Lim H.O., Takanishi A., Ceccarelli M., "Stiffness Analysis of the Humanoid Robot WABIAN-RIV", Mechanism and Machine Theory, vol.41, n.1, pp.17-40, 2006.
78. Nava Rodriguez N.E., Carbone G., Ceccarelli M., "A Design and Simulation of a New Low-Cost Humanoid Robot", 1st IEEE/RAS-EMBS International Conference on Biomedical Robotics and Biomechatronics BioRob2006, Pisa, paper F327, 2006.
79. Ceccarelli M., Nava Rodriguez N.E., Carbone G., "Design and Tests of a Three-Finger Hand with 1-dof Articulated Fingers", Robotica: An International Journal, vol.24, n.2, pp.183-196, 2006.
80. Carbone G., "Stiffness Performance of Multibody Robotic Systems", IEEE-TTTC International Conference on Automation, Quality&Testing, Robotics AQTR 2006, vol.2, pp.219-224, Cluj-Napoca, 2006.
81. Sugahara Y., Carbone G., Ceccarelli M., Hashimoto K., Lim H.O., Takanishi A., "Stiffness Experimental Evaluation of WL-16RII Biped Walking Vehicle During Walking Operation", Robotics and Mechatronics Conference ROBOMEC'06, paper 2P1-B11, Tokyo, 2006. (in Japanese)
82. Nava Rodriguez N.E., Carbone G., Ceccarelli M., "CaPaMan2bis as Trunk module in CALUMA (CAssino Low-cost hUMAnoid robot)", 2nd IEEE International Conference on Robotics, Automation and Mechatronics RAM 2006, pp.347-352, Bankok, 2006.
83. Carbone G., Ceccarelli M., Sugahara Y., Lim H.O., Takanishi A., "Stiffness experimental monitoring for WL-16RII Biped Locomotor during walking", 16th CISM-IFToMM Symposium on Robot Design, Dynamics, and Control ROMANSY06, pp.105-112, Warsaw, 2006.
84. Havlik S., Carbone G., "Design of Compliant Micro Devices", 14th International Workshop on Robotics in Alpe-Andria-Danube Region RAAD 2006, paper 23, Balatonfüred, 2006.
85. Ceccarelli M., Ottaviano E., Carbone G., "A Role of Mechanical Engineering in Mechatronics", IFAC Conference on Supplemental Ways for Improving International Stability through Automation ISA'06, pp.31-36, Pristina, 2006.
86. Nava Rodriguez N.E., Carbone G., Ceccarelli M., "A Design and Simulation of CALUMA (Cassino Low-Cost Humanoid Robot)", 8th Biennial ASME Conference on Engineering Systems Design and Analysis ESDA 2006, paper n. ESDA2006-95196, Torino, 2006.
87. Carbone G., Lanni C., Ceccarelli M., Incerti G., Tiboni M., "A Characterization of Cam Transmissions Through an Identification of Lumped Parameters", ASME Design Engineering Technical Conferences DETC'06, paper DETC2006-99218, Philadelphia, 2006.

88. Oliveira P.J., Saramago S.F.P., Carvalho J.C.M., Carbone G., Ceccarelli M. "Considerations on Dynamic Model of a Parallel Architecture and its influence in Optimum Path Planning", XII International Symposium on Dynamic Problems of Mechanics DINAME 2007, Varoto, P. S. and Trindade, M. A. (Editors), ABCM, vol.1, pp.1-11, Ilhabela, 2007.
89. Lanni C., Carbone G., Havlík Š., Ceccarelli M., "Experimental Validation of a Milli-Gripper Based on Chebyshev Mechanism", 16th International Workshop on Robotics in Alpe-Adria-Danube Region RAAD'07, Ljubljana, CD Proceedings, paper n. FP_GG2, pp. 42- 51, 2007.
90. Nava Rodriguez N.E., Carbone G., Ceccarelli M., "Design Evolution of Low-Cost Humanoid Robot CALUMA", 12th

World Congress in Mechanism and Machine Science IFToMM'07, Besançon, paper n.A181, 2007.

91. Castejón C., Carbone G., García-Prada J.C., Ceccarelli M., "A Multi-Objective Optimization for Designing Service Robots", 12th World Congress in Mechanism and Machine Science IFToMM'07, Besançon, paper n.A496, 2007.
92. Carbone G., Ceccarelli M., "A Comparison of Indices for Stiffness Performance Evaluation", 12th World Congress in Mechanism and Machine Science IFToMM'07, Besançon, paper n.A831, 2007.
93. Carbone G., Iannone S., Gonzáles A.,Ceccarelli M., "A Dynamic Symulation and Experimental Validation of a Three Finger Robotic Hand", ECCOMAS Thematic Conference Multibody Dynamics 2007, Milano, CD Proceedings, 2007.
94. Sugahara Y., Carbone G., Hashimoto K., Ceccarelli M., Lim H.O., Takanishi A., "Experimental Stiffness Measurement for WL-16RII Biped Walking Vehicle during Walking Operation", Fuji International Journal of Robotics and Mechatronics, vol.19, n.3, pp.272-280, 2007.
95. Carbone G., Ottaviano E., Ceccarelli M., "An Optimum Design Procedure for Both Serial and Parallel Manipulators", IMechE Part C: Journal of Mechanical Engineering Science, vol.221, n.7, pp.829-843, 2007.
96. Incerti G., Tiboni M., Ceccarelli M., Carbone G., "Analisi teorico-sperimentale del comportamento dinamico di meccanismi a camma a piana azionati da servomotori con controllo di velocità", XVII Congresso di Meccanica Teorica e Applicata AIMeTA, Brescia, CD Proceedings, paper MA01-3, 2007.
97. Nava Rodriguez N.E., Carbone G., Ceccarelli M., "Simulating CALUMA (CAssino Low-cost hUMAnoid Robot) Carrying a Load", International Journal Applied Bionics and Biomechanics, vol.4, n.1, pp.1-8, 2007.
98. Echávarri J., Carbone G., Ceccarelli M., Muñoz J.L., "Criterios para la seguridad en el uso de robots", 8° Congreso Iberoamericano de Ingeniería Mecánica CIBIM8, Cuzco, paper 05-12, 2007.
99. González A., Carbone G., Ceccarelli M., "Simulación dinámica del agarre con la mano LARM", 8° Congreso Iberoamericano de Ingeniería Mecánica CIBIM8, Cuzco, paper 45, 2007.
100. Shrot A., Carbone G., Ceccarelli M., "Operation Strategy for a Low-Cost Easy-Operation Cassino Hexapod", Indian National Conference on Machines and Mechanisms NaCoMM'07, Bangalore, pp.187-193, 2007.
101. Wu L., Carbone G., Ceccarelli M., "Problems and a Design Solution for an Underactuated Finger Mechanism", International Conference on Information Computing and Automation ICICA'07, Chengdu, CD Proceedings, paper IP-214, 2007.
102. Carbone G., Lanni C., Ceccarelli M., López-Cajún C., "Numerical and Experimental Simulations of Dynamic Operators of Cams", Problems of Mechanics International Scientific Journal, vol.28, n.3, pp.7-20, 2007.
103. Carbone G., Gherman B.G., Ceccarelli M., Pisla D., Itul T.P., "A Robotization for Packaging of Horticulture Products", The International Journal Robotica & Management, vol.12, n.2, pp.13-20, 2007.
104. Castejón C., Carbone G., García-Prada J.C., Ceccarelli M., "A Multi-Objective Optimization Design for a 4R Service Robot", 1st International Conference on Service and Humanoid Robotics, Kosice, pp.49-56, 2007.
105. Echávarri J., Carbone G., Muñoz J.L., Ceccarelli M., "Safety Issues for Service Robots", 1st International Conference on Service and Humanoid Robotics, Kosice, pp.57-64, 2007.
106. Carbone G., Shrot A., Ceccarelli M., "Operation Strategy for a Low-Cost Easy-Operation Cassino Hexapod", International Journal Applied Bionics and Biomechanics, vol.4, n.4, pp.149-156, 2007.
107. Castejón C., Carbone G., García-Prada J.C., Ceccarelli M., "A Multi-Objective Optimization Design for a 4R Service Robot", International Journal of Mechanics and Control, vol.08, n.02, pp.3-8, 2007.
108. Carbone G., Lanni C., Incerti G., Ceccarelli M., "A Characterization of Cam Transmissions Through Identification of Lumped Parameters", International Journal of Mechanics and Control, , vol.08, n.02, pp.33-42, 2007.

109. Carbone G., Ceccarelli M., "Experimental Tests on Feasible Operation of a Finger Mechanism in the LARM Hand", International Journal Mechanics Based Design of Structures and Machines, vol.36, pp.1-13, 2008.
110. Echávarri J., Carbone G., Muñoz J.L., Ceccarelli M., "Aspectos de seguridad para robots industriales y de servicio", XVII Congreso Nacional de Ingeniería Mecánica, Gijón, pp.1025-1032, 2008.
111. Castejón C., Carbone G., García-Prada J.C., Ceccarelli M., "Optimización multi-objetivo de mecanismos. Aplicación a la robótica de servicio", XVII Congreso Nacional de Ingeniería Mecánica, Gijón, pp.1041-1046, 2008.

56bis Carbone G., Ceccarelli M., Oliveira P.J., Saramago S.F.P., Carvalho J.C.M., "Optimum Path Planning of CaPaMan (Cassino Parallel Manipulator) by Using Inverse Dynamics", Robotica: An International Journal, vol.26, n.2, pp.229-239, 2008.

112. Iannone S. Carbone G., Ceccarelli M., "Regulation and Control of LARM Hand III", International Symposium on Multibody Systems and Mechatronics MUSME 2008, San Juan, CD Proceedings, paper n. 25, 2008.
113. Nardelli A., Carbone G., "An Experimental Characterization of LARM Hand IV", International Symposium on Multibody Systems and Mechatronics MUSME 2008, San Juan, CD Proceedings, paper n. 27, 2008.
114. Di Rienzo A., Ceccarelli M., Carbone G., Torassa P., "A Study on Balance Errors in Pneumatic Tyres", International Symposium on Multibody Systems and Mechatronics MUSME 2008, San Juan, CD Proceedings, paper n. 36 2008.
115. Yao S., Ceccarelli M., Carbone G., Lu Z., "Optimal Design of a New Underactuated Finger Mechanism for LARM Hand", 3 rd International Conference on Optimization of the Robots and Manipulators OPTIROB 2008, Bucharest, pp.29-36, 2008.
116. Carbone G., Ceccarelli M., "Design of LARM Hand: problems and solution", IEEE-TTTC International Conference on Automation, Quality&Testing, Robotics AQTR 2008, Cluj-Napoca, pp.298-303, 2008.

116.bis Carbone G., Ceccarelli M., "Design of LARM Hand: problems and solution", International Journal of Control Engineering and Applied Informatics, vol.10, n.2, pp.39-46, 2008.

117. Luo M., Carbone G., Ceccarelli M., Li T., "A Mechanism for Moving and Rotating Fingers in Robotic Hand", IEEE-

TTTC International Conference on Automation, Quality&Testing, Robotics AQTR 2008, Student forum , Cluj-Napoca, pp.66-71, 2008.

118. Hernández-Martínez E., Ceccarelli M., Carbone G., López-Cajún C., "Simulación de un manipulador paralelo espacial de 3 grados de libertad ", V Congreso Bolivariano de Ingeniería Mecánica, 2008.
119. Carbone G., Yao S., Wu L., Ceccarelli M., Zhen L., "Design and Simulation of a New Underactuated Finger Mechanism for LARM Hand", 17th CISM-IFToMM Symposium on Robot Design, Dynamics, and Control ROMANSY08, Tokyo, pp.253-260, 2008.
120. Carbone G., Ceccarelli M., "A Low-Cost Easy-Operation Hexapod Walking Machine", International Journal of Advanced Robotic Systems, vol.5, n.2, pp.161-166, 2008.
121. Nava Rodriguez N.E., Carbone G., Ceccarelli M., "Simulation Results for Design and Operation of CALUMA, a New Low-cost Humanoid Robot", Robotica: An International Journal, vol.26, n.5, pp.601-618, 2008.
122. Carbone G., "Walking Robots for Service Applications", The International UBT-Conference Modern Enterprise: Management – Engineering – Computing, Prishtinë, 2008.
123. Ceccarelli M., Carbone G., "Mechanics in Mechatronics", The International UBT-Conference Modern Enterprise: Management – Engineering – Computing, Prishtinë, 2008.
124. Carbone G., Ottaviano E., Ceccarelli M., Optimality Criteria for the Design of Manipulators, 3rd IEEE International Conferences on Cybernetics & Intelligent Systems (CIS) and Robotics, Automation & Mechatronics (RAM) (CIS-RAM 2008), Chengdu, paper P1227, 2008.
125. Castejón C., Carbone G., García-Prada J.C., Ceccarelli M., "Computational Multi-Objective Optimization to Design Service Robotics Structures", 2-nd European Conference on Mechanism Science EUCOMES'08, Springer, Dordrecht, pp.139-148, 2008.
126. Yao S., Carbone G., Ceccarelli M., Lu Z., "An Optimal Design for a New Modular Underactuated Finger Mechanism for LARM Hand", 2-nd European Conference on Mechanism Science EUCOMES'08, Springer, Dordrecht, pp.149-158, 2008.
127. Hernandez-Martinez E., Carbone G., and Lopez-Cajun C., "Operation Features of Milli-Catrasys", 2-nd European Conference on Mechanism Science EUCOMES'08, Springer, Dordrecht, pp.191-200, 2008.
128. Luo M., Carbone G., Ceccarelli M., "Design Considerations for Moving and Rotating Fingers in Robotic Hands", IEEE International Conference on Automation and Logistics ICAL'08, Quingdao, pp.1420-1425, 2008.

113bis Carbone G., Nardelli A., "An Experimental Characterization of LARM Hand IV", The International Journal Robotica & Management, Vol. 13, n.1, pp.3-15, 2008.

129. Wu L., Carbone G., Ceccarelli M., "Designing An Underactuated Mechanism For A 1 Active Dof Finger Operation", Mechanism and Machine Theory, Vol. 44, pp. 336–348, 2009. (Available online DOI information: 10.1016/j.mechmachtheory.2008.03.011).
130. Carbone G., Nakadate R., Solis J., Ceccarelli M., Takanishi A., Minagawa E., Sugawara M., Niki K.," Design Improvements on a Carotid Blood Flow Measurement System", Computational Kinematics CK2009, Duisburg, pp.283-290, 2009.
131. Tarabarin V., Carbone G., "Application of Collection of Mechanisms in Teaching Mechanism Design", Electronic Magazine BMSTU The Science and Education, n.6, 2009. ISSN 1994-0408//technomag.edu.ru/en/doc/127492.html
132. Ceccarelli M., Carbone G., "A Study of Feasibility for a Leg Design with Parallel Mechanism Architecture", IEEE/ASME Conference on Advanced Intelligent Mechatronics AIM'09, Singapore, paper no.131, 2009.
133. Liang C., Ceccarelli M., Carbone G., "Novel Biologically Inspired Tripod Walking Robot", 13th WSEAS International Conference on Computers, Rhodos, paper no.620-141, pp.83-91, 2009.
134. Gu H., Ceccarelli M., Carbone G., "An Experimental Characterization of a 1-DOF Anthropomorphic Arm for Humanoid Robots", 13th WSEAS International Conference on Computers, Rhodos, paper no.620-142, pp.92-99, 2009.
135. Carbone G., Jatsun A., Ceccarelli M., Jatsun S., "Design and Simulation of Cassino Hexapod Robot", 13th WSEAS International Conference on Computers, Rhodos, paper no.620-314, pp.301-314, 2009.
136. Gonçalves R.S., Carvalho J.C.M., Carbone G., Ceccarelli M., "A General Approach for Accuracy Analysis of Parallel Manipulator with Joint Clearance", 20th Brazilian Congress of Mechanical Engineering COBEM2009, Gramado, paper COB09-0409, 2009.
137. Kumazawa V.D., Hess-Coelho T.A., Rinaudi D., Carbone G., Ceccarelli M., "Kinematic Analysis and Operation Feasibility of a 3-DOF Symmetric Parallel Mechanism", 20th Brazilian Congress of Mechanical Engineering COBEM2009, Gramado, paper COB09-0744, 2009.
138. Yao S., Zhan Q., Ceccarelli M., Carbone G., Lu Z., "Analysis and Grasp Strategy Modeling for Underactuated Multi-Fingered Robot Hand", IEEE International Conference on Mechatronics and Automation ICMA 2009, Changchun, paper no.512, 2009.
139. Liang C., Hernández-Martínez E.E., Carbone G., Ceccarelli M., "A Comparison of Simulations and Experimental Tests on Operation Performance of CapaMan2 bis", IEEE International Conference on Mechatronics and Automation ICMA 2009, Changchun, paper no.640, 2009.
140. Carbone G., Lihang C., Ceccarelli M., "Using parallel architectures for humanoid robots", IGM-Kolloquium Getriebetechnik, Aachen, pp.177-189, 2009.
141. Briones-León J.A., Carbone G., Castillo-Castañeda E., Ceccarelli M., "Position and Force Control of the CAPAMAN 2 bis Parallel Robot for Drilling Tasks", IEEE Electronics, Robotics and Automotive Mechanics Conference, Cuernavaca, pp. 181-186, 2009.
142. Carbone G., Hashimoto K., Sugahara Y., Ceccarelli M., Takanishi A., "Stiffness Analysis and Experimental Validation

for WL-16RV Biped Walking Vehicle", IFToMM International Symposium on Robotics and Mechatronics ISRM'09, Hanoi, CD Proceedings, paper n.008, 2009.

143. Carbone G., Takeda Y., Ceccarelli M., Huda S., "Error and Stiffness Analysis of 3-URU Pure Rotational Parallel Mechanism", IFToMM International Symposium on Robotics and Mechatronics ISRM'09, Hanoi, CD Proceedings, paper n.009, 2009.
144. Ceccarelli M., Carbone G., Chang S.H., Su C.C., "A Study of Feasibility of a Nanosolenoid Actuator Made of Carbon Nanotubes", IFToMM International Symposium on Robotics and Mechatronics ISRM'09, Hanoi, CD Proceedings, paper n.010, 2009.
145. Lanni C., Carbone G., Ceccarelli M., Ottaviano E., "An Optimal Synthesis procedure for Polynomial Cam Profiles", ARoTMM – IFToMM Journal Mechanisms and Manipulators, Vol. 8, No. 1, p. 17 - 26, 2009.
146. Carbone G., Malchikov A., Ceccarelli M., Jatsun S., "Design and Simulation of Kursk Robot for in-Pipe Inspection", 10th IFToMM International Symposium on Science of Mechanisms and Machines SYROM'09, Brasov, Springer, Dordrecht, pp.103-114, 2009. ISBN 978-90-481-3521-9
147. Yao S., Zhan Q., Ceccarelli M., Carbone G., Lu Z., "Analysis and Optimal Design of a Modular Underactuated Mechanism for Robot Fingers", IEEE/RSJ International Conference on Intelligent Robots and Systems IROS'09, St. Luis, pp.2391-2396, 2009.
148. Carbone G., Echávarri J., Ceccarelli M., Muñoz Sanz J.L., "Un Nuevo Criterio Para Cuantificar La Seguridad De Robots Industriales Y De Servicio", 9º Congreso Iberoamericano de Ingeniería Mecánica CIBIM9, Las Palmas de Gran Canaria, Section 2, pp.37-43, 2009.
149. Gómez-Bravo F., Carbone G., López D., López I., Fortes J.C., Martín J.M., "Planificación De Trayectorias Libres De Colisión En Manipuladores Hibridos", 9º Congreso Iberoamericano de Ingeniería Mecánica CIBIM9, Las Palmas de Gran Canaria, Section 10, pp.65-72, 2009.
150. Castejón C., Carbone G., García-Prada J.C., Cecarelli M., "Diseño Óptimo De Mecanismos: Aplicación A Un Brazo Robótico", 9º Congreso Iberoamericano de Ingeniería Mecánica CIBIM9, Las Palmas de Gran Canaria, Section 15, pp.27-34, 2009.
151. Yao S., Ceccarelli M., Zhan Q., Carbone G., Lu Z., "Design Considerations for an Underactuated Robotic Finger Mechanism", Chinese Journal of Mechanical Engineering, Vol. 22, No. 4, pp. 475-488, 2009. DOI: 10.3901/CJME.2009.04.475.
152. Fortes Garrido J.C., Gómez Bravo F., Carbone G., Rodrígez M.A., "DAMSFORT: Computer Software Educational For Mechanical Engineering", International Conference on Education and New Learning Technologies EDULEARN'09, Barcelona, pp.003003-003011, 2009.
153. Carbone G., Suciu M., Ceccarelli M., Pisla D., "Design and Simulation of Cassino Hexapode Walking Machine", International Journal of Mechanics and Control, Vol.10, No.2, pp.27-34, 2009.

112bis Carbone G., Iannone S., Ceccarelli M., "Regulation and Control of LARM Hand III", Robotics and Computer Integrated Manufacturing, Vol.26, pp.202-211, 2010. ISSN: 0736-5845 doi:10.1016/j.rcim.2009.05.002

154. Hernández-Martínez E.E., Ceccarelli M., Carbone G., López-Cajún C.S., Jáuregui-Correa J.C., "A Characterization of Milli-CaTraSys System with a Parallel Manipulator Architecture", International Journal Mechanics Based Design of Structures and Machines, Vol.38, n.1, pp.25-49, 2010. DOI: 10.1080/15397730903386101
155. Gu H., Ceccarelli M., Carbone G., "Design and Simulation of a 1-Dof Anthropomorphic Clutched Arm For Humanoid Robots", International Journal of Humanoid Robotics, Vol. 7, No. 1, pp.157–182, 2010.
156. Yao S., Ceccarelli M., Wu L., Carbone G., Lu Z. "Grasping Simulation of an Underactuated Finger Mechanism for LARM Hand", International Journal of Modelling and Simulation Acta Press, paper 205-5134. ISSN: 0228-6203 DOI: 10.2316/Journal.205.2010.1.205-5134
157. Luo M., Carbone G., Ceccarelli M., Zhao X., "Analysis and Design for Changing Finger Posture in Robotic Hand", Mechanism and Machine Theory, Vol.45, No.6, pp.828-843, 2010. doi:10.1016/j.mechmachtheory.2009.10.014
158. Hernández-Martínez E.E., Liang C., Carbone G., Ceccarelli M., López-Cajún C.S., "Experimental and Numerical Characterization of Capaman 2bis Operation", Journal of Applied Research and Technology JART, Vol.8, No.1, pp.101-119, 2010. ISSN 1665-6423
159. Carbone G., "Stiffness Analysis for an Optimal Design of Multibody Robotic Systems, Robot Manipulators New Achievements", Aleksandar Lazinica and Hiroyuki Kawai (Eds.), ISBN: 978-953-307-090-2, INTECH, 2010. Available on-line at http://sciyo.com/articles/show/title/stiffness-analysis-for-an-optimal-design-of-multibody-robotic-systems
160. Castejón C., Carbone G., García-Prada J.C., Ceccarelli M., "A Multi-Objective Optimization of a Robotic Arm for Service Tasks", Strojniški vestnik - Journal of Mechanical Engineering, Vol.56, No.5, pp.316-329, 2010. ISSN 0039-2480
161. Yao C., Qiang Z., Ceccarelli M., Carbone G.,Yao S. , Lu Z., "Design and Simulation of a DSP Controller for a LARM Hand", 2nd international Asia Conference on Informatics in Control, Automation and Robotics CAR2010, Wuhan, pp.361-364, 2010.
162. Ceccarelli M., Carbone G., "Design and Operation of Fingered Hands and Two-Finger Grippers for Space Applications as from Experinces at LARM", IX International Scientific-Technical Conference. Control Vibration Technologies and Machines VIBRATION 2010, Kursk, pp. 208-216, 2010. ISBN 978-5-7681-0561
163. Stoica A., Carbone G., Ceccarelli M., Pisla D., "Cassino Hexapod: Experiences and New Leg Design", IEEE-TTTC

International Conference on Automation, Quality&Testing, Robotics AQTR 2010, Cluj-Napoca, pp.338-343, 2010.

92.bis Carbone G., Ceccarelli M., "A Comparison of Indices for Stiffness Performance Evaluation", Frontiers of Mechanical Engineering in China, Vol.5, No.3, pp.270-278, 2010. DOI 10.1007/s11465-010-0023-z

164. Carbone G., Angeles J., Cannella G., Ceccarelli M., "Derivation of the Mass Matrix for the McGill Schönflies Motion Generator", EUROMECH Colloquium 515 Advanced Applications and Perspectives of Multibody System Dynamics, Blagoevgrad, paper EUM515-01, 2010.

165. Nava Rodríguez N.E., Carbone G., Ceccarelli M., Moreno Lorente L.E., "Design Evolution of Cassino Hexapod Robot", 10th Biennial ASME Conference on Engineering Systems Design and Analysis ESDA2010, Istanbul, paper n. ESDA2010-24020, 2010.

166. Ceccarelli M., Blanco-Moreno F., Carbone G., Cigola M., Roig P., Regidor J.L., "Solución Robotizada Para Restauración de Pinturas Murales", CIPHI2010 Congreso Internacional de Patrimonio e Historia de la Ingeniería, Las Palmas, 2010.

167. Sula S., Carbone G., Pisla D., "An Experimental Evaluation of Earthquake Effects on Mechanism Operation", 19th International Workshop on Robotics in Alpe-Adria-Danube Region RAAD 2010, Budapest, pp. 327–332, 2010. DOI 10.1109/RAAD.2010.5524563.

168. Carbone G., Nakadate R., Solis J., Ceccarelli M., Takanishi A., Minagawa E., Sugawara M., Niki K., "A Workspace Analysis and Design Improvements of a Carotid Blood Flow Measurement System", IMechE Part H: Journal of Engineering in Medicine, vol. 224 n.11pp.1311-1323, 2010, . doi: 10.1243/09544119JEIM667.

169. Hashimoto K., Carbone G., Sugahara Y., Ceccarelli M., Takanishi A., "Experimental Evaluation of Stiffness Performance for a Biped Walking Vehicle with Parallel Architecture," 13th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines CLAWAR 2010, Nagoya, pp. 928-935, 2010.

114bis Di Rienzo A., Ceccarelli M., Carbone G., Torassa P., "A Study on Balance Errors in Pneumatic Tyres", International Journal of Mechanics and Control, vol.11, n.02, pp.15-26, 2010.

164bis Carbone G., Cannella G., Angeles J., "Derivation of the Mass Matrix for the McGill Schönflies Motion Generator", Mechanics Based Design of Structures and Machines, vol.39, pp.159–178, 2011.

170. Carbone G., González A., "Numerical Simulation of the Grasp Operation by LARM Hand IV, A Three Finger Robotic Hand", Robotics and Computer Integrated Manufacturing, vol.27, n.2, pp.450-459, 2011.

171. Liang C., Gu H., Ceccarelli M., Carbone G., "Design and Operation of a Tripod Walking Robot Via Dynamics Simulation", International Journal Robotica, vol. 29 : pp 733-743, 2011. doi:10.1017/S0263574710000615

172. Ceccarelli M., Saltarelo R.C., Carbone G., Carvalho J.C.M., "Simulation of the Lumbar Spine as a Multi-Module Paralel Manipulator", Applied Bionics and Biomechanics vol.8, pp.363–374, 2011. DOI 10.3233/ABB-2011-0046

173. Carbone G., Liang C., Gu H., Ceccarelli M., Burisch A., Raatz A., "Design and Simulation of a Binary Actuated Parallel Micro-Manipulator", 13th IFToMM World Congress, cd proceedings, paper A12-332, 2011.

174. Yao S., Ceccarelli M. , Carbone G., Zhan Q., Lu Z., "Analysis and Optimal Design of an Underactuated Finger Mechanism for LARM Hand", Frontiers of Mechanical Engineering, vol.6, n.3, pp.332-343, 2011. DOI: 10.1007/s11465-011-0229-8

175. Ceccarelli M., Yao S., Carbone G., Zhan Q., Lu Z., "Analysis and optimal design of an underactuated finger mechanism for robotic fingers", Proceedings of the Institution of Mechanical Engineers, Part C, Journal of Mechanical Engineering Science published on line Sept 2011. DOI: 10.1177/0954406211412457

176. Carbone G., Villegas E., Ceccarelli M., "Design and validation of force control loops for a parallel manipulator", International Journal of Intelligent Mechatronics and Robotics IJIMR, vol.1, n.4, pp.1-18, 2011. DOI: 10.4018/ijimr.2011100101

177. Carbone G., "Stiffness Analysis and Experimental Validation of Robotic Systems", Frontiers of Mechanical Engineering, vol.6, n.2, pp.182-196, 2011. DOI: 10.1007/s11465-011-0221-3

178. Li H., Carbone G., Ceccarelli M., Huang Q., "Operation Simulation of a Robot for Space Applications", 4th International Conference on Intelligent Robotics and Applications ICIRA 2011, Aachen, S. Jeschke, H. Liu, and D. Schilberg (Eds.), Lecture notes in Computer Science Springer book series, vol.7101, part I, pp. 122-131, 2011. DOI: 10.1007/978-3-642-25486-4

179. Li H., Ceccarelli M., Huang Q., Carbone G., "A Chameleon-Like Service Robot for Space Station", International Workshop on Bio-Inspired Robots, Nantes, poster paper n.46, 2011.

180. Li T., Carbone G., Ceccarelli M., "An Experimental Characterization of PD Control for LARM Hand III", ECCOMAS Thematic Conference Multibody Dynamics 2011,, J.C. Samin, P. Fisette (eds.), CD proceedings, Brussels, 2011. ISBN 978-2-8052-0116-5

181. Li H., Ceccarelli M., Huang Q., Carbone G., "Problems and Requirements for a Chameleon-Like Service Robot in Space Station", IEEE/ASME International Conference on Advanced Intelligent Mechatronics AIM2011, Budapest, paper n.37, pp. 463-468, 2011.

182. Liang C., Ceccarelli M., Carbone G., "Design and Simulation of Legged Walking Robots in MATLAB® Environment", MATLAB for Engineers - Applications in Control, Electrical Engineering, IT and Robotics, Karel Perutka (Eds.), ISBN: 978-953-307-914-1, INTECH 2011, Available online at: http://www.intechopen.com/articles/show/title/design-and-simulation-of-legged-walking-robots-in-matlab-environment

183. Liang C., Ceccarelli M., Carbone G., "Experimental Characterization of Operation of a Waist-Trunk System with Parallel Manipulators", Chinese Journal of Mechanical Engineering, vol. 24, n.5, pp.713-722, 2011. DOI: 10.3901/CJME.2011.05.713.

184. Nava Rodríguez N.E., Moreno Lorente L., Carbone G., Ceccarelli M., "A Control Design with Differential Evolution Algorithm for a Screw-actuated Robotic Leg", International Journal of Control Engineering and Technology JCET, vol.1 n.2, pp.65-75, 2011.
185. Carbone G., Gómez-Bravo F., Selvi O., "An Experimental Validation of Collision Free Trajectories for Parallel Manipulators", 4th IFToMM-FeIbIM International Symposium on Mechatronics and Multibody Systems MUSME 2011, Valencia, CD proceedings, paper n.16, 2011.
186. Jiménez E., Ceccarelli M., Carbone G., "A Dynamic Analysis of the Robot CaPaMan (Cassino Parallel Manipulator) as Solar Tracker", 4th IFToMM-FeIbIM International Symposium on Mechatronics and Multibody Systems MUSME 2011, Valencia, CD proceedings, paper n.38, 2011.
187. Li T., Gu H., Liang C., Carbone G., Ceccarelli M., Löchte C., Raatz A., "Test Results with a Binary Actuated Parallel Manipulator", 15th National Conference on Machines and Mechanisms, Chennai,paper NaCoMM2011-104, 2011. Edited Book: Machines and Mechanisms, Narosa Publ. House, Delhi, 2012, pp.401-409. ISBN 978-81-8487-192-0.