

ING. CLAUDIO BELVEDERE
CURRICULUM VITAE

INFORMAZIONI PERSONALI

Data di nascita	18/07/1974
Qualifica	Collaboratore Tecnico Professionale – Ingegnere Biomedico
Incarico attuale	Ricercatore con posizione organizzativa sulla Gestione degli aspetti tecnologici e scientifici dei progetti di innovazione chirurgica presso il Laboratorio di Analisi del Movimento - Istituto Ortopedico Rizzoli.
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TITOLI DI STUDIO E PROFESSIONALI ED ESPERIENZE LAVORATIVE

Titolo di studio	Laurea in Ingegneria Elettronica – Indirizzo Biomedica, conseguita presso l'Università degli Studi di Bologna il 17/12/2003.
Altri titoli di studio e professionali	Dottorato di Ricerca in Bioingegneria, conseguito presso l'Università degli Studi di Bologna il 17/04/2009. ----- Abilitazione all'esercizio della professione d'ingegnere, conseguita presso la Facoltà di Ingegneria dell'Università degli Studi di Bologna il 28/06/2004. ----- European Postgraduate Course in Biomedical Engineering, seguito presso la Panepistimio Patron-Ellada (Università degli Studi di Patrasso-Grecia) nel 1999/2000
Esperienze professionali (incarichi ricoperti)	Dal 29/12/2008, Contratto a tempo indeterminato come Ingegnere Biomedico - Collaboratore Tecnico Professionale, presso il Laboratorio di Analisi del Movimento - Istituto Ortopedico Rizzoli. PRINCIPALI MANSIONI/RESPONSABILITÀ: Organizzazione di set-up sperimentali per le acquisizioni in-vitro di dati cinematici relativi a varie articolazione; acquisizione di dati in-vivo tramite stereofotogrammetria, video-fluoroscopia tridimensionale, elettromiografia e Röntgen-stereofotogrammetria, relativi a varie articolazioni; elaborazione dei dati e pubblicazione dei risultati presso riviste e congressi; supervisione delle apparecchiature di laboratorio; supervisione di tesisti e tirocinanti. ----- Dal 02/11/2007 al 28/12/2008, contrattista di ricerca (vari contratti) presso il Laboratorio di Analisi del Movimento - Istituto Ortopedico Rizzoli, nell'ambito di vari progetti su: chirurgia computer-assistita, valutazione della cinematica dell'articolazione femoro-rotulea, valutazione biomeccanica della protesi di ginocchio stabilizzata a

menisco mobile RBK, valutazione di dispositivi per la sostituzione protesica delle articolazioni di ginocchio e tibio-tarsica, valutazione di dispositivi per la sostituzione protesica all'interno dei progetti di ricerca "STRYKER- COMPUTER AIDED SURGERY" E "LHDL".

PRINCIPALI MANSIONI/RESPONSABILITÀ: Acquisizione, elaborazione e rappresentazione grafica di dati cinematici sperimentali in-vitro via navigatore chirurgico, ed in-vivo su soggetti con protesi totale di ginocchio via fluoroscopica tridimensionale, e pubblicazione dei risultati presso riviste e congressi; supervisione delle apparecchiature di laboratorio

Dal 21/05/2007 al 16/10/2007, contratto a tempo determinato per attività di docenza mirata al conferimento dei crediti per il programma "Educazione Continua in Medicina" (ECM), sulla navigazione chirurgica per l'impianto di protesi totale di ginocchio, presso SIMULEARN s.r.l., Bologna, Italy. Provider ECM n° 9141.

Dal 02/03/2007 al 01/10/2007, contrattista di ricerca presso il Laboratorio di Analisi del Movimento - Istituto Ortopedico Rizzoli, nell'ambito del progetto di ricerca e sviluppo finanziato dalla regione Emilia-Romagna dal titolo: "STARTER: STRATEGIC NETWORK FOR ASSISTIVE AND REHABILITATION TECHNOLOGY IN EMILIA-ROMAGNA".

PRINCIPALI MANSIONI/RESPONSABILITÀ: Acquisizione, elaborazione e rappresentazione grafica di dati cinematici sperimentali in-vitro via navigatore chirurgico, ed in-vivo su soggetti con protesi totale di ginocchio via fluoroscopica tridimensionale, e pubblicazione dei risultati presso riviste e congressi; supervisione delle apparecchiature di laboratorio.

Dal 02/02/2004 al 01/03/2007, contrattista di ricerca (vari contratti) presso il Laboratorio di Analisi del Movimento - Istituto Ortopedico Rizzoli, nell'ambito di vari progetti su: ricerca relativa alla sperimentazione farmaceutica nel "Progetto Genzyme" ai fini dell'elaborazione statistica dei dati, committenze del progetto METALAB finalizzata allo studio di un sistema di navigazione chirurgica di protesi di ginocchio e sulla prevenzione delle fratture vertebrali e del disallineamento posturale nell'anziano osteoporotico, studio della cinematica del ginocchio per la valutazione del sistema Scorpio®".

PRINCIPALI MANSIONI/RESPONSABILITÀ: Elaborazione di dati e relativa analisi statistica; elaborazioni di dati stereofotogrammetrici sulla postura flessa; sviluppo di dispositivi e moduli software per sistemi di navigazione chirurgica; acquisizione dati da preparati anatomici tramite navigatore chirurgico; elaborazione di dati biomedici (tracciamento della cinematica dell'articolazione femoro-rotulea e stima del tensionamento dei tessuti molli articolari); revisione della letteratura in merito; divulgazione dei risultati ottenuti tramite partecipazione a congressi e

	scrittura di lavori per riviste scientifiche. ----- Dal 4/11/2003 al 28/11/2003, Lavoro autonomo occasionale di consulenza per il progetto di ricerca su “studio della cinematica del ginocchio per la valutazione del sistema Scorpio®” presso il Laboratorio di Analisi del Movimento - Istituto Ortopedico Rizzoli, PRINCIPALI MANSIONI/RESPONSABILITÀ: Elaborazione di dati biomedici; sviluppo di moduli software.
Capacità linguistiche	1. Italiano (madrelingua) 2. Inglese (eccellente) 3. Greco moderno (discreto)
Capacità nell'uso delle tecnologie	■ Ottime capacità nella programmazione al computer in linguaggio MATLAB®, C++®, PV-WAVE®, UNIX, ASSEMBLER®, T-PASCAL®. ■ Ottima conoscenza dell'ambiente Windows e suoi applicativi. ■ Buona conoscenza di software per CAD design (Rhinoceros®, Amira®, Osiris®). ■ Ottima conoscenza di software per video-matching per elaborazione tramite video-fluoroscopia tridimensionale (KneeTrack®, JoinTrack®). ■ Buona conoscenza del sistema stereofotogrammetrico di acquisizione Vicon®. ■ Buona conoscenza nell'uso delle seguenti tecnologie: sistemi inerziali, dinamometrici, barografici ed elettromiografici per analisi del movimento. ■ Buona familiarità con le tecniche e dispositivi radiologici per acquisizione di immagini (fluoroscopia, Tomografia assiale computerizzata, risonanza magnetica nucleare, Röntgen-stereofotogrammetria). ■ Ottima conoscenza dei sistemi di navigazione chirurgica per artroplastiche totali e ricostruzione legamentose.
Attività didattica	Supporto all'insegnamento per il corso "Biomeccanica della Funzione Motoria", tenuto dal prof. A. Leardini, all'interno del Corso di Laurea Specialistica in Ingegneria Biomedica, indirizzo 'Progettazione biomeccanica e di organi artificiali', II Facoltà di Ingegneria, DEIS, Università di Bologna Polo di Cesena. ----- Dal 2006, attività di docenza mirata al conferimento dei crediti per il programma “Educazione Continua in Medicina” (ECM), in vari incontri sulla ricerca traslazionale presso l'Istituto Ortopedico Rizzoli. ----- Dal 21/05/2007 al 16/10/2007, attività di docenza (contratto a tempo determinato) mirata al conferimento dei crediti per il programma “Educazione Continua in Medicina” (ECM), sulla navigazione chirurgia per l'impianto di protesi totale di ginocchio, presso

	SIMULEARN s.r.l., Bologna, Italy. Provider ECM n° 9141.
Altro	▪ Revisore per le seguenti riviste: Journal of Mechanics in Medicine and Biology, Computer Methods and Program in Biomedicines, Biomedical Engineering, Journal of Biomechanics, e Journal of Orthopaedic research. ▪ Revisore/Valutatore di progetti di ricerca finanziati per Le système des Bourses AFR (Aides à la Formation-Recherche) du Fonds National de la Recherche (FNR) de Luxembourg. ▪ Membro del comitato scientifico per l'International Symposium on 3D Analysis of Human Movement (3DHMA) e della European Society of Biomechanics (ESB). ▪ Tutor aziendale presso l'Istituto Ortopedico Rizzoli, Bologna, per tirocini formativi di studenti universitari. ▪ Attività come co-relatore (co-supervisor) per le seguenti tesi: 1) A novel cinetostatic model of the human ligaments for clinical application at the knee. N.Sancisi (thesis student), V.Parenti Castelli (supervisor), A.Leardini (co-supervisor), C.Belvedere (co-supervisor), A.Maggiore (co-supervisor), U.Meneghetti (co-supervisor). Master thesis in Mechanical Engineering – University of Bologna, Italy, I Session AA 2003/2004. 2) In-vivo kinematics of the three components of a novel prosthesis for total ankle replacement using three-dimesional video-fluoroscopy. F. Cenni (thesis student), A. Leardini (supervisor), C. Belvedere (co-supervisor). Master thesis in Biomedical Engineering - II Facolty of Engineering di Ingegneria (Cesena, Italy), University of Bologna, Italy, I Session AA 2007/2008. 3) Validation of the surgical navigation for total knee replacement: comparisons of knee kinamatics between intra-operative navigation data and post-operative fluoroscopic data. D.P. Notarangelo (thesis student), A. Leardini (supervisor), C. Belvedere (co-supervisor). Master thesis in Biomedical Engineering - II Facolty of Engineering di Ingegneria (Cesena, Italy), University of Bologna, Italy, I Sessione AA 2008/2009. 4) Ankle kinematics and corresponding helical axis assessment: in-vitro compharisons using surgical navigation. V. D'Angeli (thesis student), A. Leardini (supervisor), C. Belvedere (co-supervisor). Master thesis in Biomedical Engineering - II Facolty of Engineering di Ingegneria (Cesena, Italy), University of Bologna, Italy, I Sessione AA 2009/2010. 5) Knee kinematics after total joint replacement and corresponding helical axis assessment using surgical navigation. S. Tamarri (thesis student), A. Leardini (supervisor), C. Belvedere (co-supervisor). Master thesis in Biomedical Engineering - II Facolty of Engineering di Ingegneria (Cesena, Italy), University of Bologna, Italy, I Sessione AA 2009/2010. 6) Patello-femoral joint kinematics ossesse using surgical navigation: initial in-vivo cases. V. Dedda (thesis student), A. Leardini (supervisor), C. Belvedere (co-supervisor). Master thesis in Biomedical Engineering - II Facolty of Engineering di Ingegneria

(Cesena, Italy), University of Bologna, Italy, III Sessione AA 2009/2010.

7) Kinematic and dynamic assessment of the human patellar tendon fibres during total knee arthroplasty. D. Gadani (thesis student), A. Leardini (supervisor), V. Parenti Castelli (supervisor), C. Belvedere (co-supervisor).

- Moderatore di sessioni presso numerosi congressi nazionali ed internazionali.

- Relatore presso numerosi congressi nazionali ed internazionali circa la maggior parte delle pubblicazioni riportate nell'elenco allegato (vedi sotto).

- Pubblicazioni (Lavori su riviste ed atti congressuali):

1. Leardini A, Belvedere C, Ensini A, Dedda V, Giannini S. Accuracy of Computer-Assisted Surgery. In: KNEE SURGERY USING COMPUTER ASSISTED SURGERY AND ROBOTICS. doi: 10.1007/978-3-642-31430-8_2
2. Belvedere C, Ensini A, Leardini A, Feliciangeli A, Giannini S. Patellar tracking in computer-assisted surgery. In: KNEE SURGERY USING COMPUTER ASSISTED SURGERY AND ROBOTICS. doi: 10.1007/978-3-642-31430-8_18
3. Ensini A, Barbadoro P, Leardini A, Belvedere C, Giannini S. TKA - Measured Resection Technique. In: KNEE SURGERY USING COMPUTER ASSISTED SURGERY AND ROBOTICS. doi: 10.1007/978-3-642-31430-8_4.
4. Ensini A, Timoncini A, Cenni F, Belvedere C, Fusai F, Leardini A, Giannini S. Intra- and post-operative accuracy assessments of two different patient-specific instrumentation systems for total knee replacement. KNEE SURG SPORTS TRAUMATOL ARTHROSC. 2013 Sep 24. [Epub ahead of print]
5. D'Angeli V, Belvedere C, Ortolani M, Giannini S, Leardini A. (2013) Load along the femur shaft during activities of daily living. J Biomech. 46(12):2002-10. doi: 10.1016/j.jbiomech.2013.06.012.
6. Cenni F, Leardini A, Pieri M, Berti L, Belvedere C, Romagnoli M, Giannini S (2013). Functional performance of a total ankle replacement: Thorough assessment by combining gait and fluoroscopic analyses. CLINICAL BIOMECHANICS, vol. 28, p. 79-87, ISSN:0268-0033, doi: 10.1016/j.clinbiomech.2012.10.008
7. Belvedere C, Ensini A, Feliciangeli A, Cenni F, D'Angeli V, Giannini S, Leardini A (2012). Geometrical changes of knee ligaments and patellar tendon during passive flexion. JOURNAL OF BIOMECHANICS, vol. Jul 26;45(11), p. 1886-1892, ISSN: 0021-9290, doi: 10.1016/j.jbiomech.2012.05.029
8. Ensini A, Catani F, Biasca N, Belvedere C, Giannini S, Leardini A (2012). Joint line is well restored when navigation surgery is performed for total knee arthroplasty. KNEE SURG SPORTS TRAUMATOL ARTHROSC., vol. 20, p. 495-502, ISSN: 0942-2056, doi: 10.1007/s00167-011-1558-1
9. Cenni F, Leardini A, Belvedere C, Bugane F, Cremonini K, Miscione MT, Giannini S (2012). Kinematics of the Three

- Components of a Total Ankle Replacement: In Vivo Fluoroscopic Analysis. *FOOT & ANKLE INTERNATIONAL*, vol. 33, p. 290-300, ISSN: 1071-1007, doi: 10.3113/FAI.2012.0290
10. Ensini A, Belvedere C, Leardini C, Dedda C, Cenni F, Feliciangeli A, Barbadoro P, Timoncini A, Giannini S (2012). La cinematica femoro-rotulea nell'artroplastica di ginocchio navigata. *LO SCALPELLO*, vol. 26, p. 75-78, ISSN: 1970-6812, doi: 10.1007/s11639-012-0144-8
 11. Cenni F, Leardini A, Cheli A, Catani F, Belvedere C, Romagnoli M, Giannini S (2012). Position of the prosthesis components in total ankle replacement and the effect on motion at the replaced joint. *INTERNATIONAL ORTHOPAEDICS*, vol. 36, p. 571-578, ISSN: 0341-2695, doi: 10.1007/s00264-011-1323-6
 12. Belvedere C, Tamarri S, Notarangelo DP, Ensini A, Feliciangeli A, Leardini A (2013). Three-dimensional motion analysis of the human knee joint: comparison between intra- and post-operative measurements. *KNEE SURG SPORTS TRAUMATOL ARTHROSC.*, vol. 21(10):2375-83, ISSN: 0942-2056, doi: 10.1007/s00167-012-2271-4
 13. Ensini A, Belvedere C, Cenni F, Timoncini A, Giannini S, Leardini A (2012). Accuracy assessment of the 'custom fit' technology for total knee replacement. *JOURNAL OF BIOMECHANICS*, vol. 45(S1), ISSN: 0021-9290
 14. Belvedere C, Ensini A, Notarangelo DP, Tamarri S, Feliciangeli A, Leardini A (2012). Comparison between intra- and post-operative measurements of three-dimensional motion analysis of the replaced human knee joint. *JOURNAL OF BONE AND JOINT SURGERY-BRITISH VOLUME*, vol. 94-B (SUPP XLIV), p. 83, ISSN: 0301-620X
 15. Berti L, Cenni F, Belvedere C, Leardini A, Bove F, Bove Ga, Giannini S (2012). Comparison between cruciate retaining and posterior stabilized total knee replacements: Gait and fluoro analyses in bilateral cases. *GAIT & POSTURE*, vol. 35, p. S17, ISSN: 0966-6362, doi: 10.1016/j.gaitpost.2011.09.045
 16. Barbadoro P, Ensini A, Belvedere C, Cenni F, Leardini A, Giannini S (2012). Correlazione tra l'allineamento della componente tibiale e la sua fissazione all'osso nelle protesi monocompartimentali di ginocchio: studio radiografico e radiostereometrico. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY*, vol. 13 (Supp1), p. S111, ISSN: 1590-9921
 17. D'Angeli V, Visentini A, Belvedere C, Leardini A, Romagnoli M, Giannini S (2012). Effects of tibial component malpositioning on joint kinematics during passive flexion in an original three-component total ankle replacement. *JOURNAL OF BONE AND JOINT SURGERY-BRITISH VOLUME*, vol. 94-B (SUPP XLIV), p. 85, ISSN: 0301-620X
 18. Belvedere C, Ensini A, Cenni F, Giannini S, Leardini A (2012). Fiber deformation over flexion by anatomical-based fiber mapping. an in-vitro study. *JOURNAL OF BIOMECHANICS*, vol. 45(S1), ISSN: 0021-9290

19. Cenni F, Pieri M, Berti L, Belvedere C, Romagnoli M, Giannini S, Leardini A (2012). Functional performance of replaced ankles by combining gait and fluoroscopic analyses. JOURNAL OF BIOMECHANICS, vol. 45(S1), ISSN: 0021-9290
20. Cenni F, Giannini S, Belvedere C, Romagnoli M, Berti L, Pieri M, Leardini A (2012). Fluoroscopic and gait analyses for the assessment of the functional performance of an original total ankle replacement. JOURNAL OF FOOT AND ANKLE RESEARCH, vol. 5(Suppl 1), p. O34, ISSN: 1757-1146, doi: 10.1186/1757-1146-5-S1-O34
21. Cenni F, Giannini s, Belvedere C, Romagnoli M, Berti L, Pieri M, Leardini A (2012). Functional performance of a total ankle replacement: A thorough assessment by combining gait and fluoroscopic analyses. GAIT & POSTURE, vol. 35, p. S16, ISSN: 0966-6362, doi: 10.1016/j.gaitpost.2011.09.044
22. Belvedere C, Ensini A, Moctezuma De La Barrera JL, Feliciangeli A, Leardini A, Catani F (2012). Patellar tracking assessment in surgical navigation for total knee replacement: initial experience in patients. JOURNAL OF BONE AND JOINT SURGERY-BRITISH VOLUME, vol. 94-B (SUPP XLIV), p. 66, ISSN: 0301-620X
23. Sancisi N, Parenti-Castelli V, Baldisserri B, Belvedere C, Romagnoli M, D'Angeli V, Leardini A (2012). Validation of a one degree-of-freedom spherical model for kinematics analysis of the human ankle joint. JOURNAL OF FOOT AND ANKLE RESEARCH, vol. 5(Suppl 1), p. P13, ISSN: 1757-1146, doi: 10.1186/1757-1146-5-s1-p13
24. Cenni F, Leardini A, Ensini A, Belvedere C, Berti L, Luciani D, Romagnoli M, Giannini S (2012). Valutazione funzionale di una protesi totale di caviglia: studio combinato mediante analisi del passo e video-fluoroscopia tridimensionali. JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY, vol. 13 (Supp 1), p. S98, ISSN: 1590-9921
25. Ensini A, Belvedere C, Feliciangeli A, Timoncini A, Dedda V, Leardini A, Giannini S (2012). Valutazione intraoperatoria della cinematica dell'articolazione femoro-rotulea nella protesi totale di ginocchio e sua correlazione con il posizionamento della componente femorale. JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY, vol. 13 (Supp 1), p. S12-S13, ISSN:1590-9921
26. Cenni F, Leardini A, Belvedere C, Romagnoli M, Berti L, Pieri M, Giannini S (2012). A combined fluoroscopic and gait analysis for the functional assessments of a total ankle replacement. In: Proceedings of the 9th International Congress of the European Foot and Ankle Society. Noordwijk Aan Zee, The Netherlands, 6-8 September, 2012
27. Tamarri S, Cenni F, Ensini A, Belvedere C, Giannini S, Leardini A (2012). A thorough functional in-vivo assessment of tibio- and patello- femoral joint kinematics in total knee replacement. In: Proceedings del XIII Congresso della Società Italiana di Analisi del Movimento in Clinica. Bellaria, Italy, 3-6 Ottobre 2012

28. Belvedere C, Romagnoli M, Berti L, D'Apote G, Luciani D, Giannini S, Cenni F, Leardini A (2012). A combined three-dimensional gait and fluoroscopic analysis of the functional performance of a total ankle replacement. In: Proceedings of the 13th meeting of the European Federation of National Associations of Orthopaedics and Traumatology (EFORT). Berlin, Germany, 23-25 May 2012
29. Belvedere C, Ensini A, Feliciangeli A, Dedda V, Cenni F, Giannini S, Leardini A (2012). A new technique for anatomy-based patellar tracking in navigated total knee arthroplasty: early in-vivo experiences. In: Proceedings of the XII International Symposium on 3D Analysis of Human Movement - Technology & Treatment. Bologna, Italy, 18-20 July 2012
30. Cenni F, Belvedere C, Leardini A, Alberto, Lullini G, Bove F, Bove Ga, Giannini S, Berti L (2012). Analysis of bilateral cases in total knee replacement: Comparison between cruciate retaining and posterior stabilized. In: Proceedings of the 13th meeting of the European Federation of National Associations of Orthopaedics and Traumatology (EFORT). Berlin, Germany, 23-25 May 2012
31. Timoncini A, Cenni F, Giannini S, Leardini A, Belvedere C, Ensini A (2012). Custom-fit cutting blocks for total knee arthroplasty: Comparison between two different systems. In: Proceedings of the 13th meeting of the European Federation of National Associations of Orthopaedics and Traumatology (EFORT). Berlin, Germany, 23-25 May 2012
32. Belvedere C, Ensini A, Leardini A, Feliciangeli A, Boschert H, Giannini S (2012). Does Patellar Resurfacing Affect Patello-Femoral Kinematics in Total Knee Replacement? An in-vitro study. In: Proceedings of the 2012 Meeting of the Orthopaedic Research Society. San Francisco, CA-USA, February 4 - 7, 2012
33. Belvedere C, Ensini A, Moctezuma De La Barrera JL, Giannini S, Leardini A (2012). Intra- operative assessment of the patello-femoral joint kinematics in navigated total knee arthroplasty: a first experience on ten patients. In: Proceedings of the 2012 International Society for Technology in Arthroplasty (ISTA). Sydney, Australia, 4th - 6th October, 2012
34. Imbert P, Belvedere C, Leardini A (2012). Intra-operative assessment of joint laxity in the acl-deficient and contralateral healthy knees. In: Proceedings of the XII International Symposium on Ligaments and Tendons. San Francisco, CA-USA, February 3, 2012
35. Imbert P, Belvedere C, Leardini A (2012). Mesures per opératoires naviguées de la laxité du genou sain comparées au genou lésé controlatéral, avant et après reconstruction du LCA (Intra operative assessment of joint laxity in the ACL deficient and contralateral healthy knees before and after ACL reconstruction). In: LIVRE DES ACTES DU CONGRÈS ANNUEL DE LA SOCIÉTÉ FRANÇAISE D'ARTHROSCOPIE 2012. Lille, France, 6-8 Décembre, 2012
36. Belvedere C, Ensini A, Moctezuma JL, Feliciangeli A, Giannini S, Leardini A (2012). Intra-operative assessment of patello-

- femoral joint kinematics in total knee replacement and its correlation with femoral component position. In: Proceedings of the 15th Congress the European Society of Sports Traumatology Knee Surgery and Arthroscopy (ESSKA). Geneva, Switzerland, May 2-5, 2012
37. Sancisi N, Parenti-Castelli V, Belvedere C, Baldisserri B, Leardini A (2012). Spherical one-degree-of-freedom models of the knee and ankle joints for lower limb modelling. In: Proceedings of the XII International Symposium on 3D Analysis of Human Movement - Technology & Treatment. Bologna, Italy, 18-20 July 2012
 38. Belvedere C, Ensini A, Feliciangeli A, Cenni F, Leardini A (2012). Three-dimensional geometrical changes of knee soft tissues during flexion by anatomical-based fibre mapping. an in-vitro study. In: Proceedings of 12th International Symposium on Ligaments & Tendons. San Francisco, CA-USA, February 3, 2012
 39. Ensini A, Belvedere C, Cenni F, Timoncini A, Giannini S, Leardini A (2012). Total knee replacement by means of custom-fit cutting blocks: comparison between two different systems. In: Proceedings of the 15th Congress the European Society of Sports Traumatology Knee Surgery and Arthroscopy (ESSKA). Geneva, Switzerland, May 2-5, 2012
 40. Sancisi N, Zannoli D, Parenti-Castelli V, Belvedere C, Leardini A (2011). A one-degree-of-freedom spherical mechanism for human knee joint modelling. Proceedings of the institution of mechanical engineers. Part H, JOURNAL OF ENGINEERING IN MEDICINE, vol. 225, p. 725-735, ISSN: 0954-4119, doi: 10.1177/0954411911406951
 41. Belvedere C, Leardini A, Giannini S, Ensini A, Bianchi L, Catani F (2011). Does medio-lateral motion occur in the normal knee? An in-vitro study in passive motion. JOURNAL OF BIOMECHANICS, vol. 44, p. 877-884, ISSN: 0021-9290, doi:10.1016/j.jbiomech.2010.12.004
 42. Catani F, Belvedere C, Ensini A, Feliciangeli A, Giannini S, Leardini A (2011). In-Vivo Knee Kinematics in Rotationally Unconstrained Total Knee Arthroplasty. JOURNAL OF ORTHOPAEDIC RESEARCH, vol. 29, p. 1484-1490, ISSN: 0736-0266, doi: 10.1002/jor.21397
 43. Leardini A, Biagi F, Merlo A, Belvedere C, Benedetti MG (2011). Multi-segment trunk kinematics during locomotion and elementary exercises. CLINICAL BIOMECHANICS, vol. 26, p. 562-571, ISSN: 0268-0033, doi: 10.1016/j.clinbiomech.2011.01.015
 44. Cenni F, Leardini A, Belvedere C, Catani F, Cremonini K, Giannini S (2011). In-vivo kinematics of the three components of an innovative ligament-compatible total ankle. FOOT & ANKLE INTERNATIONAL, vol. 32, No. 3/March 2011, ISSN: 1071-1007, doi: DOI: 10.3113/FAI.2011.0320
 45. Belvedere C, Ensini A, Notarangelo DP, Tamarri S, Feliciangeli S, Leardini A (2011). 3D motion analysis of the human knee

- joint: comparison between intra- and postoperative measurements. In: Proceedings of the 23rd congress of the International Society of Biomechanics, 2011. Brussels, Belgium, July 3-7, 2011
46. Benedetti MG, Biagi F, Merlo A, Belvedere C, Lanzolla AM, Leardini A (2011). A new protocol for multi-segment trunk kinematics. In: Proceedings of the 6th edition of the IEEE International Symposium on Medical Measurements and Applications. Bari, Italy, May 30 - 31, 2011
 47. Timoncini A, Ensini A, Leardini A, Belvedere C, Cenni F, Giannini S (2011). A new technology in the implant positioning for total knee replacement: comparison between two custom-fit techniques. In: Proceedings of the 24th Annual Congress Of International Society Of Technology In Arthroplasty. Bruges (Brugge), Belgium, 20-23 September, 2011
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Bologna, 25/09/2013

Firma dell'interessato



Firma del Direttore/Responsabile UO

