

Biosketch

Nicola Sancisi was born on February 17, 1979 in Bologna, Italy, where he lives at present. He attended secondary school specializing in scientific studies at the Liceo Scientifico E. Fermi in Bologna, where he received the school-leaving certificate in 1998. He then received the Laurea degree (with honours) in Mechanical Engineering in 2004 and the Ph.D. degree in Mechanics of Machines in 2008 at the University of Bologna, under the supervision of Professor Parenti Castelli. From 2008 he works at DIN in Bologna, first as a post-doctoral researcher, and then, from 2013, as an assistant professor.

His studies are mainly focused on biomechanics, in particular knee and ankle modelling, experimental motion analysis, and prosthesis design and optimization. His research interests include also the analysis and synthesis of mechanisms, for biomechanics, robotics and automation applications. In all these fields, he collaborated with research centres and international companies, and participated to several research projects.

His work in the aforementioned areas has been the subject of several scientific publications in international conferences and journals. In 2007, he received the best paper award from the IFToMM Scientific Committee. He is also the inventor of an international patent.

He speaks Italian, English and French.

Education

2005-2007: Ph.D. in Mechanics of Machines, University of Bologna, Italy; Dissertation: "A new approach for the dynamic modelling of the human knee", Prof. V. Parenti Castelli (advisor).

2005: Professional Engineer Certificate (qualification for professional practice), University of Bologna, Italy.

1998-2004: Laurea Degree (Master-degree equivalent) in Mechanical Engineering, with honors, University of Bologna, Italy; Dissertation: "A new kinetostatic model of the human ligaments with application to clinical tests of the knee" (in Italian), Prof. V. Parenti Castelli (advisor).

1993-1998: General Certificate of Secondary Education, Liceo Scientifico E. Fermi, Bologna, Italy.

Employment

ACADEMIC POSITION

01.08.2013 to date: assistant professor at the School of Engineering and Architecture of the University of Bologna, Italy, Department of Industrial Engineering (DIN).

01.01.2008-31.07.2013: post-doctoral researcher at the School of Engineering and Architecture of the University of Bologna, Italy, Department of Industrial Engineering (DIN).

TEACHING

2018 to date: professor of Fundamentals of Mechanics for the 1st Level Degree Courses in Mechatronics.

2016 to date: professor of Fundamentals of Mechanics of Machines 1 for the 1st Level Degree Courses in Automation Engineering and Electrical Engineering.

2013-2015: professor of Fundamentals of Mechanics of Machines 2 for the 1st Level Degree Courses in Automation Engineering.

2010-2011: assistant instructor of Fundamentals of Mechanics of Machines for the 1st Level Degree Courses in Energetic Engineering.

2008-2013: contract professor of Fundamentals of Mechanics of Machines for the 1st Level Degree Courses in Automation Engineering.

2008-2010: contract professor of Fundamentals of Mechanics of Machines for the 1st Level Degree Courses in Energetic Engineering.

2006-2013: assistant instructor of Mechanics of Machines for the 1st Level Degree Courses in Mechanical Engineering.

2005-2006: assistant instructor of Fundamentals of Mechanics of Machines and of Mechanics of Robots for the 1st and the 2nd Level Degree Courses in Automation and Mechanical Engineering.

Journal Service

2006-2011: editorial assistant of *Meccanica - The International Journal of Theoretical and Applied Mechanics AIMETA*.

Reviewer for: *Journal of Robotic Systems*, *Journal of Applied Bionics and Biomechanics*, *Journal of Mechanical Design*, *IEEE Transactions on Robotics*, *Mechanism and Machine Theory*, *Transactions of the Canadian Society of Mechanical Engineering*, *Journal of Biomechanics*, *Meccanica*, *Journal of Mechanisms and Robotics*, *Computer Methods in Biomechanics and Biomedical Engineering*, *Medical & Biological Engineering & Computing*, *Computers in Biology and Medicine*, *Journal of Medical Devices*, *Journal of Biomechanics*

Awards and Honours

Best paper award at the 12th IFToMM World Congress in Mechanism and Machine Science, Besançon, France, June 18-21, 2007

June 2005: Best master thesis in Mechanics of Machines (Masi-Carducci award)

December 2004: Ministerial scholarship for PhD School in Mechanics of Machines

Patents

PARENTI CASTELLI V; CATANI F; SANCISI N; LEARDINI A. **Improved orthopaedic device**. WO2010128485 (Pubblicazione: 11/11/2010), EP2429457 (Published: 21/03/2012), CN102802565 (Published: 28/11/2012). Granting: 2016.

PARENTI CASTELLI V; CATANI F; SANCISI N; LEARDINI A. **Dispositivo ortopedico perfezionato**. BO2009A000291. Published: 08/05/2009; Extension PCT/IB2010/052024 published 07/05/2010. Granting: 2012.

Publications

Author of 25 papers on International Journals, 8 book chapters, 73 congress papers.