ESTRATTO DEL CURRICULUM VITAE

redatto ai fini della pubblicazione sul sito istituzionale della Scuola Superiore Sant'Anna

Cv per la pubblicazione su https://www.santannapisa.it/it/titolari-di-incarichi-di-collaborazione-o-consulenza ai sensi dell'art. 15-bis, comma 1, lett. b, del D. Lgs. 33/2013 rubricato "Obblighi di pubblicazione concernenti incarichi conferiti nelle società controllate", previa visione dell'informativa privacy.

Cognome e nome

Baldoni Andrea

Istruzione e formazione

Andrea Baldoni ha conseguito il Dottorato di Ricerca cum laude in BioRobotica presso la Scuola Superiore Sant'Anna di Pisa nel 2019.
Ha conseguito la laurea Magistrale e Triennale in Ingegneria Meccanica presso l'Università degli Studi di Perugia rispettivamente nel 2013 e nel 2011.

Esperienza lavorativa

Andrea Baldoni attualmente ricopre una posizione come post-doc all'Istituto di BioRobotica durante la quale ha maturato diverse pubblicazioni scientifiche (H index 8 con 262 citazioni) e numerose privative industriali.

Articoli Scientifici:

1) Fanciullacci et al. (2020) – Evaluation of Human Factors for the User-centered Design of Powered Robotic Transfemoral Prostheses: A Survey of Transfemoral Amputee Experience and Priorities – Research Square.
2) Trigili et al. (2019) - Design and experimental characterization of a shoulder-elbow exoskeleton with compliant joints for post-stroke rehabilitation – IEEE/ASME Transactions on Mechatronics, 24(4), 1485-1496.
3) Marconi et al. (2019) - A novel Hand Exoskeleton with Series Elastic Actuation for modulated torque transfer – Transaction of Mechatronics - Mechatronics 61, 69-82.
4) Ercolini et al. (2018) - Powered exoskeletons for arm rehabilitation – Robotica Ercolino 37 (12), 2056-2072.
5) Crea et al. (2018) - Feasibility and safety of shared EEG/EOG and vision-guided autonomous whole-arm exoskeleton control to perform activities of daily living. Scientific reports, 8(1), 10823.
6) Baldoni et al. (2018) - Design and Validation of a Miniaturized SEA Transmission System – Mechatronics (Elsevier), Vol. 49, pp 149-156
7) Crea et al. (2017) - Validation of a Gravity Compensation Algorithm for a Shoulder-Elbow Exoskeleton for Neurological Rehabilitation. In Converging Clinical and Engineering Research on Neurorehabilitation II (pp. 495-499). Springer, Cham.
8) Crea et al. (2016, June) - A novel shoulder-elbow exoskeleton with series elastic actuators. In 2016 6th IEEE International Conference on Biomedical Robotics and Biomechatronics (BioRob) (pp. 1248-1253). IEEE.

Famiglie brevettuali:

9) Variable stiffness orthotic shell – WO 2021/124198 – 17/12/19 – Baldoni et al.
10) Method for optimizing the arrangement of pressure sensors and device obtained by this method - WO 2021/084427 – 28/10/2019 Martini et al.
11) Kinematic chain to assist flexion-extension of a joint – WO 2021/064544 – 30/09/2019 – Baldoni et al.
12) Telaio di sostegno ad un esoscheletro di mano – n°102019000005476 – 13/07/2017 – Baldoni et

al.

13) Telaio di sostegno per esoscheletro di arto superiore – n°102019000001843 – 08/02/2019 – Baldoni et al.
14) Wearable robotic device for moving a user – WO2020/109996 – 27/11/2018 – Baldoni et al.
15) A planar torsional spring – WO2020/104962 – 21/11/2018 – Baldoni et al.
16) Wearable active robot for body joints in series – WO2020/070705 - 05/10/2017 – Baldoni et al.
17) Wearable active robot with sensor means for feedback control – WO2020/070703 - 05/10/2017 – Baldoni et al.
18) Wearable active robot with spinal polyarticular chain – WO2020/070704 – 05/10/2017 – Baldoni et al.
19) Multiple output actuation system for robotic joints – WO2020/070711 – 05/10/2017 – Baldoni et al.
20) Device for the selective transmission of driving torques – WO2020/070712 – 05/10/2017 – Baldoni et al.
21) Exoskeleton for the assistance of polyarticular joints – WO2020/070713 – 05/10/2017 – Baldoni et al.
22) Kinematical chain for assisting the motion of a spherical joint - WO2019/012429 – 13/07/2017 – Baldoni et al.
23) Exoskeleton for upper arm - WO2018/207073 – 08/05/2017 – Baldoni et al.
24) Joint for transmitting a torsional load with elastic response - WO2017/216740 – 17/06/2016 – Baldoni et al.
25) Kinematic chain for transmission of mechanical torques – WO2017/216663 – 14/06/2016 – Baldoni et al.