

Curriculum vitae

PERSONAL INFORMATION



Mengarelli Alessandro

Date of birth: 04/06/1983

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EDUCATION

23/03/2017 Ph.D. DEGREE IN INFORMATION ENGINEERING
Università Politecnica delle Marche, Ancona (Italia)

Skills:

Modeling of balance control after external perturbations

Gait analysis in healthy and pathological subjects

Movement analysis

EMG signal processing and analysis

Biomedical signals processing and analysis

11/12/2012 MASTER'S DEGREE IN BIOMEDICAL ENGINEERING (110/110)
Università Politecnica delle Marche, Ancona (Italia)

Skills:

Biomedical signal processing

Biomedical instrumentation

Application of control models to biological systems

EMG signal processing and analysis

19/03/2008 BSC DEGREE IN BIOMEDICAL ENGINEERING (106/110)
Università Politecnica delle Marche, Ancona (Italia)

Skills:

Conoscenza ed uso di strumenti di acquisizione di segnali biologici e digitali

Analisi ed elaborazione di segnali biologici

Conoscenza e studio della dinamica di sistemi fisiologici di controllo

Conoscenza della dinamica posturale attraverso l'implementazione di modelli di controllo applicati al mantenimento dell'equilibrio non perturbato

INFORMATION

- Current position** Postdoc research fellow at Dipartimento di Ingegneria dell'Informazione, Università Politecnica delle Marche.
- Memberships** Institute of Electrical and Electronics Engineering (IEEE), n°93510908
Engineering in Medicine and Biology Society (EMBS)
- Conference and symposia** Speaker at XIV Congresso Associazione Italiana Analisi del Movimento in Clinica (SIAMOC), 2013.
Speaker at 10th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA), 2014.
Speaker at Workshop on Mobile Networks for Biometric Data Analysis (mBiDA), 2014.
Speaker at 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2015.
Speaker at 12^o Workshop on Intelligent Solutions in Embedded Systems (WISES), 2015.
Speaker at 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2016.
Speaker at al World Congress on Medical Physics & Biomedical Engineering, 2018
- Teaching experience** Auxiliary teaching for the class of Industrial Automation (Università Politecnica delle Marche), 2017/2018.
Speaker for the course “Menti Attive in Riabilitazione: la Ricerca in Riabilitazione nelle Marche”, Osimo, 2015.
Auxiliary teaching for the class of Automatic Control (Università Politecnica delle Marche), 2016/2017 and 2017/2018.
Auxiliary teaching for the class of Movement Biomechanics (Università Politecnica delle Marche).
Auxiliary teaching for the class of Bioengineering of Motor Rehabilitation (Università Politecnica delle Marche).
Auxiliary teaching for the class of Models and Control of Biological Systems (Università Politecnica delle Marche).
Co-tutor of 34 BSC and MSC degree theses.
- Past positions** Postdoc research fellow at Università Politecnica delle Marche, Department of Information Engineering, from 01/09/2017 to 31/08/2018.
- Certificates** Italian teaching qualification as Professor (II fascia) for the 06/N2 teaching area, holding from 29/08/2018 to 29/08/2024.