The paper:

Design of technology-based rehabilitation pathways: the experience of Santobono-Pausilipon Hospital

by

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to be submitted to ACTA IMEKO, is the extension of the paper:

L.Iuppariello, P.Bifulco, M.Cesarelli, S.Esposito, M.Nespoli, L.Foggia, F.Clemente, “New Measurement Techniques for Gait Analysis:the Grail experience”, 22nd IMEKO TC4 International Symposium Iasi, Romania, September 14-15, 2017, pp. 249-252.

The aim of the paper ”New Measurement Techniques for Gait Analysis: the Grail experience”, initially presented at the TC-4 Iasi Symposium, in ACTA IMEKO was to accurately describe the procedure needed to control the system and correctly achieve a gait analysis measure by means the use of an innovative system for measurement of human gait i.e. GRAIL.

The latter performs clinical gait analysis and gait training in a virtual reality (VR) environment using different measurement technologies solidly integrated in one functional system.

The extended paper “Design of technology-based rehabilitation pathways: the experience of Santobono-Pausilipon Hospital”, here proposed, starting from the IMEKO paper on new patient assessment, addresses the clinical use of the rehabilitation robotics and VR using different new technologies (as GRAIL, Lokomat, AlterG and Erigo.

These innovative devices are the basis for the development of two technology-based rehabilitation pathways for the treatment of gait disorders following obesity and neurological diseases in childhood.