

New Medical Products in Telepaxx MarketPlace

New Medical Products in Telepaxx MarketPlace – The First German Market Place for Digital Health and Medical Deep Learning

Büchenbach, 2. April 2019 – New medical products for diagnostic support of X-ray thorax, automatic lung circularity detection, mobile image distribution and simple dose control are now available in Telepaxx MarketPlace.

In the spirit of networking, Telepaxx Medical Data GmbH is bringing together various medical products in its MarketPlace in time for DMEA - Connecting Digital Health, the health IT trade fair from 9 to 11 April 2019 in Berlin. The first Healthcare IT companies are thus using the Telepaxx MarketPlace for the development, testing, quality assurance and commercialization of medical applications. Oxipit supports radiologists with its AI solution ChestEye with the diagnosis of X-rays of the thorax. Veolity LungCAD by MeVis Medical Solutions AG supports radiologists with their diagnosis by automatically recognising pulmonary round lesions. mbits' mRay supports radiologists in teleradiology, second diagnosis, background service, perfusion analysis and photo documentation. Domako as a Service is a dose management system for simple dose control including automatic notification when reference values are exceeded. All medical products are now available to physicians and clinics in Telepaxx MarketPlace for a fee. Free web demonstrations and test accounts are available on request at any time.

Diagnosis Support X-ray Thorax

ChestEye by Oxipit is a solution suite for the radiological workflow in thorax X-ray. The tools in the suite increase the productivity of diagnostic reporting by creating preliminary reports, enabling more accurate differential diagnosis through image-based search and case selection, and prioritizing cases with urgent conditions for early reporting. ChestEye CAD is a fully automated computer aided diagnosis (CAD) X-ray solution for the thorax. It creates preliminary findings (image on, report off) which must then be confirmed by a radiologist. In this way, the user can save time (internal study shows >30% savings), increase accuracy (e.g. fewer overlooked secondary findings) and introduce best reporting practices. With Telepaxx MarketPlace, the solution is directly integrated into the radiological DICOM data stream.

Mobile Image Distribution

mRay by mbits supports radiologists in teleradiology, second diagnosis, background service, perfusion analysis and photo documentation. mRay saves time by providing an immediately possible teleconsil with one or more colleagues. Doctors work more flexibly in the background service, communicate more understandably during rounds

and make quick and reliable therapy decisions. In addition, doctors save costs through mobile, radiological workstations and simple image access for referring physicians and patients.

Automatic Lung Round Detection

In studies on the early detection of bronchial carcinomas (Lung Cancer 2006; N Engl J Med. 2006; J Thorac Cardiovasc Surg. 2008), up to 60 percent of the cases with high-resolution multi-line CT devices are described as round lung lesions <1cm. This is why radiologists are particularly challenged to distinguish between safe and risky round foci. Veolity LungCAD supports radiologists in this work. Special software with CAD function increases diagnostic quality in a significantly shorter time. Radiologists automatically mark, measure and document conspicuous regions in the image data using Veolity LungCAD by MeVis Medical Solutions AG - supplemented by volume, diameter, density and mass - and thus assess changes in pathological structures. The final diagnosis remains in the hands of the radiologist.

Simple Dose Control

Domako - Dose Management as a Service - automatically receives the dose values stored in the DICOM data of each PACS, documents them completely and evaluates them automatically. Each dose value is automatically compared with the specified diagnostic reference values to determine the cause of the exceedance. A further advantage for the medical physics expert: graphic analyses and generated email reports enable efficient information and reporting. Low installation effort and no adaptation of the infrastructure: Domako aaS can be operated with any PACS or long-term archive. Thanks to the diagrams and statistics in the clear dashboard, radiologists can see at a glance how high the dose values are - also in comparison to the diagnostic reference values. If reference values are exceeded, Domako from migration can send an automated e-mail notification on request.

How The Telepaxx MarketPlace Works

"The development of AI-based medical applications is growing rapidly. However, researchers and developers often lack access to the market and to validated training data sets for the respective use cases," says Thomas Pettinger, project manager of MarketPlace and responsible for business development at Telepaxx. The new offering now provides a solution with which such applications can be trained and developed to market maturity in a quality-assured and data protection-compliant environment. They would then be available to a large circle of customers for commercial use. Telepaxx Medical Data GmbH - which specializes in decentralized data handling and central, manufacturer-independent long-term archiving - has access to a network of more than 600 decentralized servers in medical facilities and a data pool of more than 13 billion image and findings data in German-speaking countries. In addition to the highest possible quality, it is just as important to integrate smoothly into the medical

workflow of the facilities. Telepaxx therefore supports the Telepaxx MarketPlace from the start not only with training data, but also with know-how. Telepaxx clarifies, for example, whether supervised learning can be used with smaller training data sets in the highest possible quality, but also advises on quality assurance, the avoidance of bias or product approval and on a product design that fits the work processes in medicine and radiology.

Oxipit is a start-up for AI-based medical imaging solutions. Its ChestEye radiology imaging suite provides analyses and preliminary reports on the 75 most common radiological findings - the largest diagnostic scope currently available on the market - with an average area under the curve of 93 %. The CE mark ensures that the software complies with medical device regulations and paves the way for commercial use in 32 European countries. The Oxipit interdisciplinary team has won several first places in various data science competitions such as Kaggle, an online community of data scientists and machine learning experts owned by Google, and has decades of experience in joint product development.

mbits is a spin-off of the German Cancer Research Centre (DKFZ, Heidelberg, Germany). As a specialist for medical image processing, mbits develops professional, radiological software solutions for mobile devices. mbits sees itself as a flexible technology company for medical software with a focus on developments specifically for mobile devices such as tablet PCs and smartphones. The research group has been working in the field of medical image processing software for mobile devices since 2011. Initially as mbits Steinbeis Transferzentrum für Technologie and since 2015 in the partner-managed mbits imaging GmbH.

MeVis Medical Solutions AG was founded in 1997 and is one of the world's leading independent developers and providers of software products for medical imaging with a focus on disease-oriented clinical applications. MeVis has been listed in the Prime Standard (Regulated Market) of the Frankfurt Stock Exchange since November 16, 2007. The complexity and volume of medical image data has risen sharply in recent years. In addition to digital mammography, computer tomography (CT), magnetic resonance imaging (MRI) and ultrasound (US) are particularly affected. MeVis applications analyse and process this data in such a way as to provide physicians with significant added value for the early detection, diagnosis and intervention of cancer, lung diseases and neurological diseases. The Company develops its software solutions in close cooperation with the world's leading medical experts and medical device manufacturers and markets its software primarily through these partnerships.

medigration was founded in 1998 by Dr.-Ing. Hans-Erich Reinfelder in Erlangen. Under the umbrella of the bender group, medigration GmbH and AkoSystem GmbH (founded in 1991 by Dipl.-Ing. Francis Ait Larbi) form an entrepreneurial unit in the course of a takeover in 2012. As an established company in the field of medical informatics, medigration develops tailor-made, cost-efficient and future-proof solutions in the fields of RIS, PACS, digital mammography diagnosis (both for curative mammography and for mammography screening) and digital radiography (DR). Medigration consistently meets the highest quality requirements and has a QM system certified according to DIN EN ISO 13485:2016.



Telepaxx Medical Data GmbH has been a successful provider of services for the external handling and archiving of medical data for decades when a cloud solution was still called an external storage service. Telepaxx is a partner for the long-term archiving of many university clinics and private hospital chains such as Asklepios, Helios or Rhön-Klinikum AG. Telepaxx has several data centers in Germany and operates the largest medical image archive in Europe with over 13 billion image data.

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