



ARTIFICIAL INTELLIGENCE SUPPORTING HEALTHCARE



***Evolving solutions in Healthcare***

LOOKING TO THE FUTURE



ARTIFICIAL INTELLIGENCE SUPPORTING HEALTHCARE

## Technology for health

MS HumanAid is Emme Esse M.S. platform developed in cooperation with synbrAI to implement Artificial Intelligence in the medical/diagnostic field.

MS HumanAid is a medical device composed of modular solutions; it supports the analysis and comparison of diagnostic images, detecting and highlighting the presence of various pathologies to be brought to the attention of the radiologist.

## Advantages

Automated analysis of images

Support to diagnosis

Reduction in reporting and diagnostic time

High diagnostic accuracy

Identification of images of similar cases, for diagnostic comparison

Thanks to the potentialities and extensive presence of information technology, the competences of industry professionals are automated and made easily available, sharing the knowledge and expertise of few people, to the benefit of many others, for everybody.

**Technological innovations stem from man,  
work with man,  
are for man!**

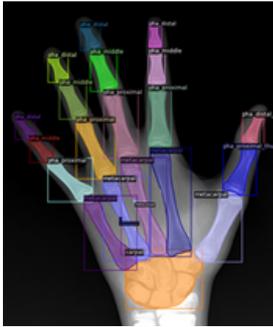
# AID Bone

## BONE AGE



**Aid Bone AGE** allows to determine the bone age automatically, by analysing the radiographic image of the contralateral hand compared to the dominant hand.

The clinical practice of ascertaining a patient's biological maturity through assessment of the hand's bones is extensively used in the auxologic and paediatric field, especially for the diagnosis of pathologies of growth.



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The automation of these calculations allows considerable efficiency and effectiveness saving for the doctor, as the estimate is generated in a few seconds and with just a click, in a manner which is replicable in time.

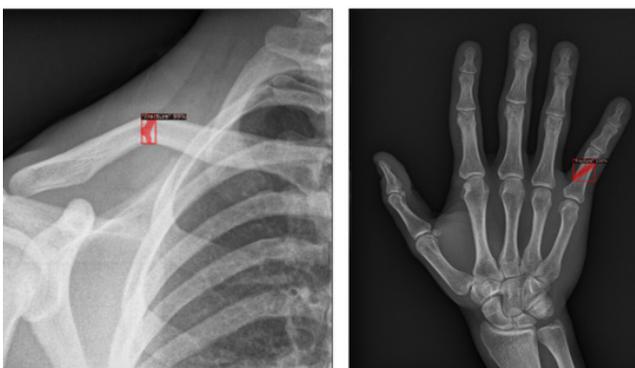
## FRACTURES



**Aid Bone FRACTURES** supports the radiologist in the identification of fractures and hairline fractures on radiographic images, supplying a degree of prediction confidence.

The application is able to analyse bone lesions in the following body areas:

- pelvis
- lower limbs
- upper limbs



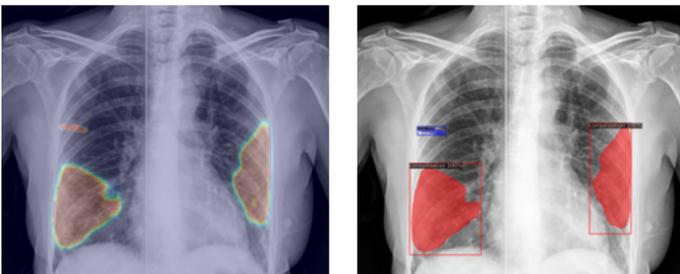
Accuracy and precision in diagnosing fractures and hairline fractures are particularly important in paediatrics to reduce the radiation dose to the patient, avoiding the acquisition of additional contralateral images which would be otherwise necessary.

# AID Chest XR

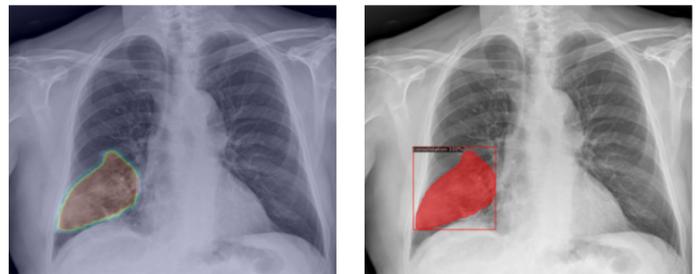
AID Chest XR supports the analysis and comparison of radiographic images of the thorax, detecting and highlighting the presence of lung diseases, if any, to be brought to the attention of the radiologist.

The system is able to detect automatically the radiological manifestations present on the images and to recognize the typical characteristics of various pathologies

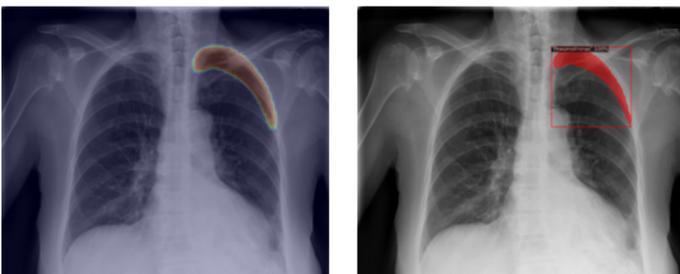
## COVID PNEUMONIA



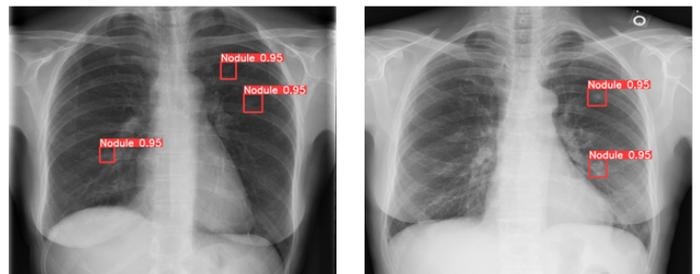
## BACTERIAL PNEUMONIA



## PNEUMOTHORAX



## NODULES



AID Chest XR proposes advance visualization modalities (heat map and segmentation) to highlight the presence of:

Pulmonary consolidations

Linear opacifications

Pneumothorax

Nodules

# AID Chest CT

AID Chest CT executes an automated volumetric segmentation of CT images of the thorax to support the radiologist in the analysis and identification of COVID pathologies and of the presence of lung nodules.

AID Chest CT recognizes and highlights the presence of:

Pulmonary consolidations

Ground glass

Fibrotic bands

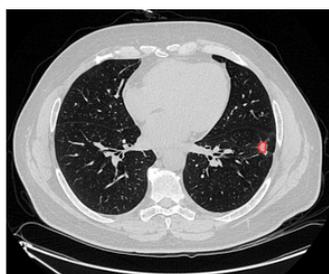
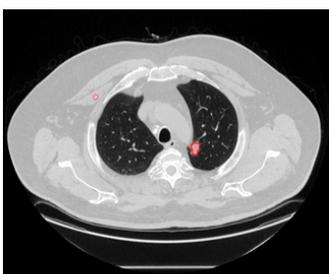
Crazy paving

Nodules

## COVID



## PULMONARY NODULES





Digitalization is permeating every aspect of the healthcare world and Emme Esse is interpreter, actor and promoter of this change. For over 40 years it has dealt with the commercialization, production and management of high-tech solutions and it is specialized in the bio-images sector; today it offers hardware and software systems and Artificial Intelligence applications, looking ahead towards new opportunities of development and growth.



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