On-Belt Tomosynthesis - A Low Cost 3D Imaging System

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Category(s):
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Description:

On-Belt Tomosynthesis - A Low Cost 3D Imaging System

Available for: Licensing and co-development

Summary

Professor Robert Speller and his team at University College London have developed a novel On-Belt Tomosynthesis system with the potential to produce high quality 3D composite images, at low cost, whilst baggage remains in transit through an airport conveyor system. This technology is currently available for licensing and UCL Business PLC, UCL wholly owned commercialisation company, are actively seeking partners for onward development.

The Technology and its Advantages

Current baggage scanning systems utilise X-ray transmission imaging. These technologies are problematic as it is hard to decompose distinct objects from an image due to variations in the x-ray absorption properties of the imaged structures. This can lead to an increase in baggage handling times.

The UCL pre-prototype system enables:

-3D imaging capability using 2D imaging equipment

-Fast imaging while baggage still on conveyor at any point in system

-Low costs system in comparison to full 3D CT systems

-Offers spatial resolution of the order of mm.

Intellectual Property Status

Patent applications covering this technology have been filed. Claims cover the configuration for generating 3D x-ray images and the methodology

used. GB Priority 0917688.4 (9th October 2009), recently entered PCT.

Further Information

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