



Center for High-Frequency Technologies and Applications

Microwave Imaging Techniques

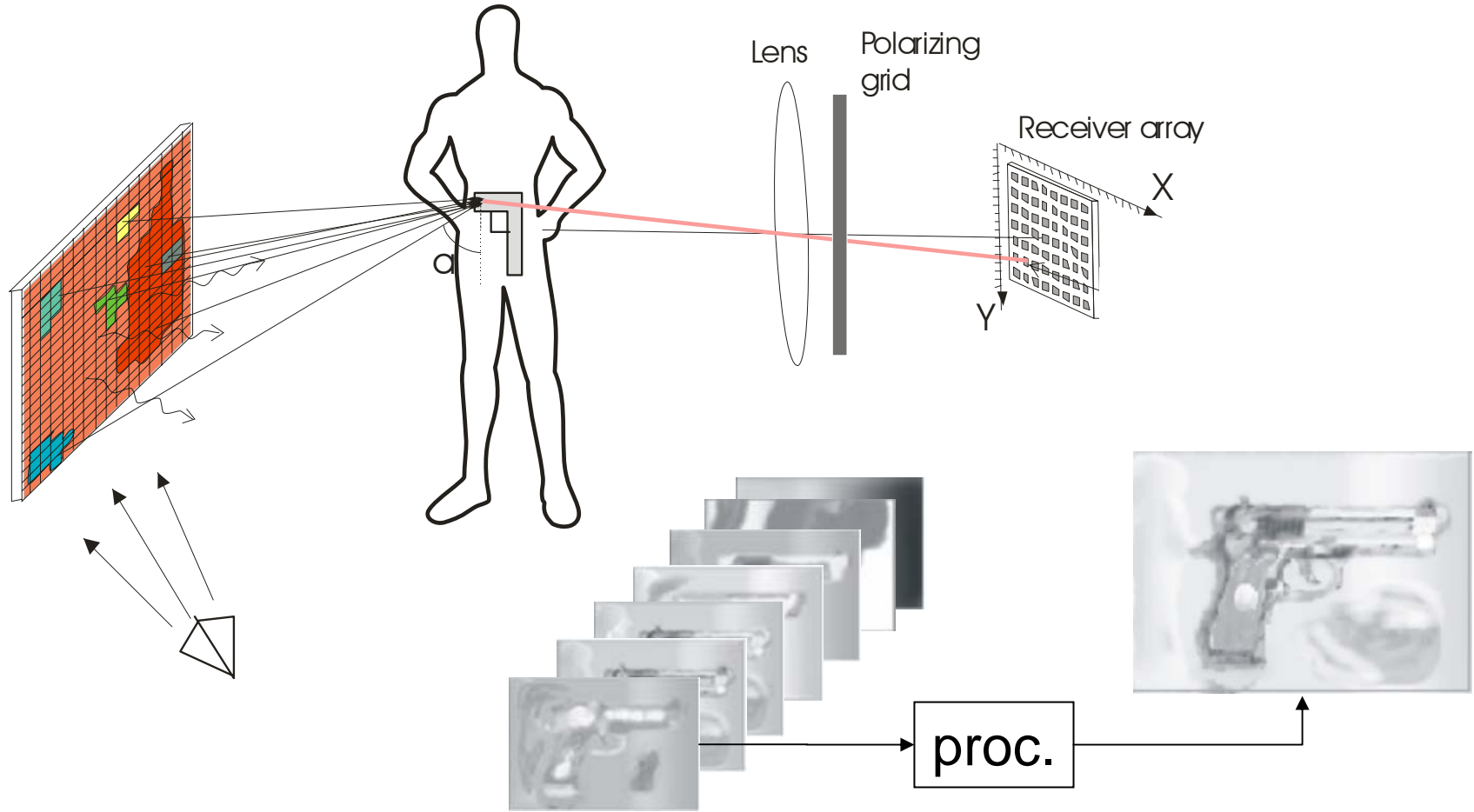
Dr. ir. Dries Vande Ginste
Technology Developer

Of high importance for various applications of topical interest
Generally spoken: the development of new numerical methods for quantitative microwave imaging of inhomogeneous objects

More specifically, the following techniques are (being) implemented:

- Fast quantitative and qualitative millimeter wave imaging for security applications
- Breast tumor detection by microwave imaging
- Non-destructive testing and imaging of reinforced concrete structures

Example 1: Concealed objects visualization strategic system

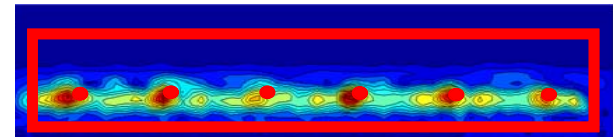
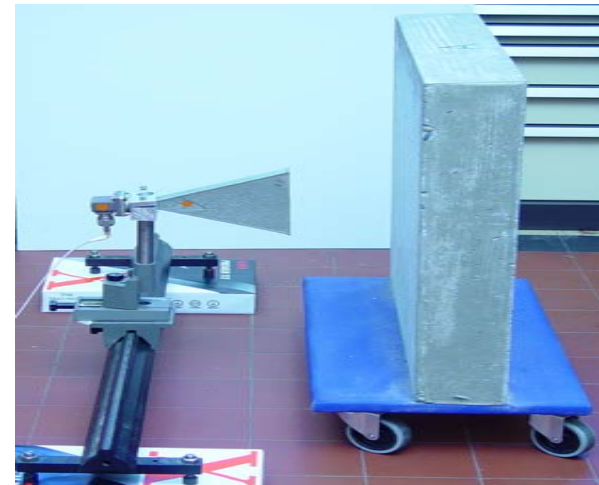


Example 2: Measurement setups to conduct imaging and GPR experiments

Determine quality of fibre reinforced concrete



Remotely sense rebar content of reinforced concrete



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Center for High-Frequency Technologies and Applications (CHiTA)
Dept. of Information Technology (INTEC) - Ghent University
Sint-Pietersnieuwstraat 41
B-9000 Gent
Belgium

Phone: +32 9 264 33 54

Fax: + 32 9 264 99 69

Email: Dries.Vande.Ginste@intec.UGent.be

Website: <http://www.CHiTA.be/>