



# Participant Profile

for the  
**Turkish-German Strategy Workshop 2006**  
**TÜBİTAK Marmara Research Center,**  
**Istanbul- Gebze Turkey**  
**13 – 15 December 2006**



International Bureau (IB)  
of the Federal Ministry of  
Education and Research  
(BMBF)

## 1. Contact details and personal information

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<sup>1</sup> **Role/function** e.g. working group leader, managing director, postdoc, PhD etc.

<sup>2</sup> **Organisation type** e.g. university, research institution, small and medium enterprise (SME), industry etc.

<b>Working Group:</b>	<input type="checkbox"/> 1 Material Technologies <input type="checkbox"/> 2 Biotechnology, Genomics and Food <input type="checkbox"/> 3 Energy <input checked="" type="checkbox"/> 4 Information and Communication Technologies <input type="checkbox"/> 5 Environmental Protection, Climate Change and Sustainable Development
<b>Areas of activity:</b>	<input checked="" type="checkbox"/> research <input type="checkbox"/> technology development <input type="checkbox"/> demonstration <input type="checkbox"/> training <input type="checkbox"/> dissemination <input type="checkbox"/> other:
<b>Keywords characterising your area of research:</b>	<b>Please choose the appropriate key words (max. 5) from the following list:</b> <a href="http://www.cordis.lu/fp6/keywords">http://www.cordis.lu/fp6/keywords</a> Image Processing, Signal Processing, Electronic Engineering, Sensors, Multisensory technology, multi-sensing
<b>Expertise, technologies and infrastructures available in your institution:</b>	<b>Research activities / expertise:</b> Dual sensor Mine detector development Signal processing (buried object detection utilizing Ground Penetrating Radar). Image processing (thresholding, segmentation), <b>Methods:</b> Ground Penetrating Radar, Electromagnetic Induction <b>Key technologies:</b> Effective antenna design, high frequency sampling, Sensor fusion, data fusion, artificial intelligence based identification <b>Infrastructures:</b> Laboratories, equipments, mine test site <b>Key publications:</b> 1. M. Sezgin, B. Sankur, "A survey over image thresholding and quantitative performance evaluation", Journal of Electronic Imaging, Vol.13, No:1, January 2004. (SCI:22 Citation) 2. Serdar Türk, Engin Kurt, Mehmet Sezgin, Yıldırım Bahadırlar, "Ultra-Wide Band Antenna Design for Multi-sensor Adaptive Ground Penetrating Impulse Radar", Mediterranean Microwave Symposium, 18-21 September 2006 Genova Italy. 3. Serdar Türk, Mehmet Sezgin, "UWB Performance Analysis of PDTEM Horn Antenna Designed for Multi-sensor Adaptive Hand-held GPR", Antenna Technology and Applied Electromagnetics (ANTEM 2005)" symposium, 14-17 June 2005, France 4. M. Sezgin, Y. Bahadırlar, İ. Taşdelen " Signal processing techniques to improve GPR detection performance", SPIE Defense and Security Symposium, Detection and Remediation Technologies For Mines and Minelike Targets Orlando, ABD, 29 March 2005- 1 April 2005 5. M. Sezgin, İ. Taşdelen, S.Öztürk, F. Kurugöllü, "Real time detection of buried objects by using GPR, SPIE Defense and Security Symposium, 12-16 April 2004 Orlando, ABD



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## 2. Past and present research collaborations

Are you familiar  
with the European  
Framework  
Programme?

Yes

No

- with Framework Programme 5  
 with Framework Programme 6  
 with Framework Programme 7

EU-projects you are  
involved in:

Past projects

Present projects

Other international  
collaborations:

Name(s) and  
contact details of  
potential partners:

Programme title / contract number / title / acronym / your function  
(coordinator / partner / contractor)

If you would like to suggest the participation of particular partners from the partner country based on existing contacts or collaboration experience, you are welcome to indicate their names and contact details below:

## 3. Presentation at the Workshop

I will give a presentation at the workshop (approx. 10 min.) to present my institution, my expertise, and my collaboration interests. The contents of my presentations is summarised below (max. 1 page).

**I agree with the publication of my data on the Workshop website!**

**PLEASE FILL IN THIS FORM UNTIL 22 SEPT. 2006 AND RETURN IT TO:**

Internationales Buero des BMBF  
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