

NETWORK OF MAGNETIC DETECTORS FOR ENHANCING AIRPORT SAFETY

Kosmas DIMITROPOULOS¹, Nikos GRAMMALIDIS¹, Ioannis GRAGOPOULOS¹, Niovi PAVLIDOU¹,
Thomas HEUER², Haibin GAO², Constanze STOCKHAMMER³ and Uwe HARTMANN²

Abstract. Airport surface management is increasingly recognized as a critical process with respect to flight safety and air transport system capacity. The EC-funded ISMAEL project, presented in this paper, aims to determine whether recent advances in magnetic sensing techniques can provide a better means of surface movement surveillance at airports, either as a cost-effective alternative of ground radar or as an additional sensor in a multi-sensor A-SMGCS application.

¹ Informatics and Telematics Institute, 1st Km Thermi-Panorama, Thessaloniki Greece, dimitrop@iti.gr, ngramm@iti.gr, grag@iti.gr and niovi@eng.auth.gr

² Institute of Experimental Physics, Saarland University, D-66041 Saarbuecken, Germany, t.heuer@mx.uni-saarland.de, h.gao@mx.uni-saarland.de, u.hartmann@mx.uni-saarland.de

³ HiTec – Vereinigung High Tech Marketing, Lothringerstrasse 14/6, 1030 Vienna, Austria, cs@hitec.at