

Imaging Techniques for Chemical Application on Crops

Amots Hetzroni,¹ Yael Edan^{1,2} and Victor Alchanatis¹

This paper presents a state-of-the-art review of available image sensing technologies and developments for site-specific application of agricultural chemicals. This includes a review of detection features, sensing technologies, system integration, information systems and prototype operational systems.

KEY WORDS: Chemical spray; imaging; color; automation; pesticide application; precision farming.

¹Dept. of Testing and Advanced Technologies in Agriculture, ARO, The Volcani Center, Bet Dagan 50250, Israel [Fax: +972-3-9604704; e-mail: veamots@volcani.agri.gov.il].

²Dept. of Industrial Engineering and Management, Ben-Gurion University of the Negev, Be'er Sheva 84105, Israel.