APPLICATIONS OF AUGMENTED REALITY
Edited by J. White, D. C. Schmidt, and M. Golparvar-Fard

124 Behind the Glass: Driver Challenges and Opportunities for AR Automotive Applications
By J. L. Gabbard, G. M. Fitch, and H. Kim

This paper presents challenges of incorporating augmented reality into automotive applications and promising research solutions.

137 Augmented Reality for Construction Site Monitoring and Documentation
By S. Zollmann, C. Hoppe, S. Kluckner, C. Poglitsch, H. Bischof, and G. Reitmayr

This paper describes an approach for utilizing imagery from unmanned aerial vehicles to build mobile augmented reality applications for construction.

155 Next-Generation Augmented Reality Browsers: Rich, Seamless, and Adaptive
By T. Langlotz, T. Nguyen, D. Schmalstieg, and R. Grasset

This paper discusses the challenges and varying research approaches to building augmented reality browsers to discover and view content related to physical objects around a mobile device.

170 Manipulating the Experience of Reality for Rehabilitation Applications
By H. Regenbrecht, S. Hoermann, C. Ott, L. Müller, and E. Franz

This paper explores the use of augmented reality for therapeutic applications and a cognitive model to aid in therapeutic application design.

185 Virtual Handcrafting: Building Virtual Wood Models Using ToolDevice

This paper introduces a number of new physical world tools to manipulate virtual objects and the research behind their construction.

196 Two-Phase Calibration for a Mirror Metaphor Augmented Reality System
By J. S. Jang, G. S. Jung, T. H. Lee, and S. K. Jung

This paper investigates the problem of building an immersive augmented reality system that uses mirrors to enhance the perceived realism of the user’s augmented reality experience.

204 Combining Photogrammetry and Augmented Reality Towards an Integrated Facility Management System for the Oil Industry

This paper describes approaches for using augmented reality to improve facility management for the oil industry.

221 Erratum to “GaN-Based p–n Junction Blue-Light-Emitting Devices”