

(54) Title of the invention : OPTIMISATION OF MULTI WAVELENGTH DRONE IMAGES FOR BETTER VISUALISATION USING GEO REFERENCE MODEL

<p>(51) International classification :B64C0039020000, G06Q0030020000, G05D0001100000, G06T0017050000, B64D0047080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)G. Ravi Address of Applicant :Assistant Professor, ECE Department, St peters engineering college, Hyderabad-500100, India. -----</p> <p>2)Parth Shrivastava 3)Dr. S. Murugaveni 4)Dr. Markkandan S 5)Dr. M. Ramkumar Prabhu 6)Sai Sundara Sriramam Yadavalli 7)Dr. Thummala Ranga Babu 8)P. Sivaprasad Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)G. Ravi Address of Applicant :Assistant Professor, ECE Department, St peters engineering college, Hyderabad-500100, India. -----</p> <p>2)Parth Shrivastava Address of Applicant :Shree bungalow, Gulmohar colony, GK Lane number 11, Vishal Nagar, Pimpri Chinchwad, Pune. Pune – 411 027 Maharashtra. -----</p> <p>3)Dr. S. Murugaveni Address of Applicant :Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India. -----</p> <p>4)Dr. Markkandan S Address of Applicant :Assistant Professor (Senior), School of Electronics Engineering (SENSE), Vellore Institute of Technology, Chennai, Tamil Nadu, India. -----</p> <p>5)Dr. M. Ramkumar Prabhu Address of Applicant :Professor, Department of ECE, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, Tamil Nadu, India. -----</p> <p>6)Sai Sundara Sriramam Yadavalli Address of Applicant :Assistant Professor, Department of ECE S.R.K.R. Engineering College, Bhimavaram, A.P, India. -----</p> <p>7)Dr. Thummala Ranga Babu Address of Applicant :Professor & HOD, ECE Department, RVR & JC College of engineering, Chowdavaram -----</p> <p>8)P. Sivaprasad Address of Applicant :Assistant professor, ECE Department, RVR & JC College of engineering, A.P -----</p>
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(57) Abstract :
OPTIMISATION OF MULTI WAVELENGTH DRONE IMAGES FOR BETTER VISUALISATION USING GEO REFERENCE MODEL Abstract: The present invention discloses a novel system and method for optimizing multi-wavelength drone images through the seamless integration of multi-spectral and thermal data with a Geo-reference model. Unmanned aerial vehicles (UAVs) equipped with advanced sensors capture data from target areas, which is subsequently processed and integrated into a precise spatial framework. The integrated data is then subjected to visualization enhancement techniques, facilitating improved interpretation and decision-making in applications such as agriculture, environmental monitoring, infrastructure assessment, and land surveying. The innovation addresses longstanding challenges in remote sensing by providing a comprehensive solution that enhances the accuracy, efficiency, and utility of multi-wavelength drone imaging. The system's versatility and adaptability to diverse sectors underscore its potential for revolutionizing data acquisition and analysis in dynamic environments.

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