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(51) International classification	:G06Q0010060000, G06F0016290000, G01C0015000000, G06Q0050080000, G06T0017050000	(71) <b>Name of Applicant :</b> <b>1)Maniammai Institute of Science &amp; Technology</b> Address of Applicant :Department of Civil Engineering, Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur, Tamilnadu, India. Vallam - ----- <b>2)Dr. S. Senthamil Kumar</b> <b>3)Dr. B. Anupriya</b> <b>4)Dr. D. Thayalnayaki</b> <b>5)Ms. R. Latha</b> <b>6)Ms. P. Latha</b> <b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b> <b>(72) Name of Inventor :</b> <b>1)Dr. S. Senthamil Kumar</b> Address of Applicant :Dr. S. Senthamil Kumar, Professor, Department of Civil Engineering, Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur, Tamilnadu, India Vallam ----- <b>2)Dr. B. Anupriya</b> Address of Applicant :Dr. B. Anupriya, Associate Professor, Department of Civil Engineering, Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur, Tamilnadu, India Vallam ----- <b>3)Dr. D. Thayalnayaki</b> Address of Applicant :Dr. D. Thayalnayaki, Assistant Professor (SG), Department of Civil Engineering, Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur, Tamilnadu, India Vallam ----- <b>4)Ms. R. Latha</b> Address of Applicant :Ms. R. Latha, Assistant Professor, Department of Civil Engineering, Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur, Tamilnadu, India Vallam ----- <b>5)Ms. P. Latha</b> Address of Applicant :Ms. P. Latha, Assistant Professor, Department of Civil Engineering, Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur, Tamilnadu, India Vallam -----
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(57) Abstract :

ABSTRACT This presents a groundbreaking method for navigating intricate construction landscapes by integrating Geographic Information Systems (GIS) and Remote Sensing technologies. Through the fusion of GIS data with high-resolution remote sensing imagery, the invention delivers real-time insights into construction sites, facilitating efficient resource management, logistics, and operations. This pioneering approach empowers construction professionals to make informed decisions, optimize processes, and enhance safety across diverse terrain conditions. By harnessing the power of spatial analysis and imagery, the patent revolutionizes construction management practices, offering a holistic solution to challenges associated with complex terrain. With its ability to provide detailed terrain mapping and analysis, the invention sets a new standard for navigating construction terrain effectively. Its versatility and adaptability make it a valuable tool for construction projects worldwide, promising improved efficiency, productivity, and project outcomes.

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