

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511106538 A

(19) INDIA

(22) Date of filing of Application :04/11/2025

(43) Publication Date : 26/12/2025

(54) Title of the invention : A COMPUTER-BASED SYSTEM FOR REAL-TIME FLOOD RESCUE COORDINATION

(51) International classification	:H04W 8/12, H04W 36/32, H04W 8/06, H04W 64/00, H04W 48/04	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. RASHMI SHARMA
(33) Name of priority country	:NA	2)Dr. CHANDRA SHEKHAR YADAV
(86) International Application No	:	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A computer-based flood rescue coordination system integrates sensor nodes (10) measuring water level, flow, rainfall, and optionally imagery, with a central server (20) that fuses real-time data and predictive flood models. Rescue teams carry mobile units (40) to transmit location and status. A dispatch engine (60) dynamically assigns rescue units from a resource database (50) and computes routing (70). Alerts (80) and decision support (90) guide operations via a geospatial interface (30). Communication module (100) ensures reliable bidirectional links. The system adapts to changing flood conditions, optimizes resource deployment, and enables coordinated, real-time flood rescue operations.

No. of Pages : 17 No. of Claims : 6