

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241052057 A

(19) INDIA

(22) Date of filing of Application :12/09/2022

(43) Publication Date : 16/09/2022

(54) Title of the invention : UAV-borne mobile multimedia computing with integrated cyber-physical surveillance toward a taxonomy of intelligent data processing for IoMT-enabled radar sensor networks.

<p>(51) International classification : G01S0013900000, G01S0013890000, G06K0009000000, G01S0013020000, G01S0007020000</p> <p>(86) International Application No : PCT//</p> <p>Filing Date : 01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA</p> <p>Filing Date : NA</p> <p>(62) Divisional to Application Number : NA</p> <p>Filing Date : NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr.T R Arunkumar Address of Applicant :Assistant Professor, Department of Computer Science, Rani Channamma University, Bhutaramanahatti, Karnataka Pin: 591 156 District: Belagavi State: Karnataka Country: India</p> <p>2)Prof. (Dr). G. Thippanna</p> <p>3)Dr Neeraj Kumar Sharma</p> <p>4)NARU DIVYA JYOTHI</p> <p>5)Dr. SKV. Jayakumar</p> <p>6)Dr K SRINIVASULU</p> <p>7)P. Venkata Krishna</p> <p>8)Pooja Yadav</p> <p>9)Dr.Hemant Yadav</p> <p>10)Dr. Abhishek</p> <p>11)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr.T R Arunkumar Address of Applicant :Assistant Professor, Department of Computer Science, Rani Channamma University, Bhutaramanahatti, Karnataka Pin: 591 156 District: Belagavi State: Karnataka Country: India</p> <p>2)Prof. (Dr). G. Thippanna Address of Applicant :Professor Dept. Of MCA, Ashoka Women's Engineering College Pin: 518002 District: Kurnool State: Andhra Pradesh Country: India</p> <p>3)Dr Neeraj Kumar Sharma Address of Applicant :Professor and Director Harlal Institute of Management and Technology, 08 Knowledge Park I, Greater Noida Pin: 201310 District: Noida State: Uttar Pradesh Country: India</p> <p>4)NARU DIVYA JYOTHI Address of Applicant :ASST PROFESSOR MALLA REDDY COLLEGE OF ENGINEERING Pin:500100 District: HYDERABAD State: TELANGANA Country: INDIA</p> <p>5)Dr. SKV. Jayakumar Address of Applicant :Associate Professor, Dept. of Computer Science Pondicherry University, RV Nagar, Kalapet, Pondicherry Pin: 605014 District: Pondicherry State: Pondicherry Country: India</p> <p>6)Dr K SRINIVASULU Address of Applicant :Professor in ECE department Ellenki college of engineering and technology Pin:502319 District: Hyderabad, State: Telangana Country: India</p> <p>7)P. Venkata Krishna Address of Applicant :Professor Department of Computer Science, Sri Padmavati Mahila University, Tirupati Pin: 517 502 District: Tirupati State: Andhra Pradesh Country: India</p> <p>8)Pooja Yadav Address of Applicant :Assistant Professor Faculty of Engineering and Technology, MJP Rohilkhand University, Bareilly Pin: 243006 District: Bareilly State: Uttar Pradesh Country: India</p> <p>9)Dr.Hemant Yadav Address of Applicant :Professor Future Institute of Engineering & Technology 18th Milestone, Bareilly-Lucknow Highway NH - 24, Near Faridpur, Pin:243123 District: Bareilly State: Uttar Pradesh Country: India</p> <p>10)Dr. Abhishek Address of Applicant :Professor Future Institute of Engineering & Technology 18th Milestone, Bareilly-Lucknow Highway NH - 24, Near Faridpur, Pin: 243123 District: Bareilly State: Uttar Pradesh Country: India</p> <p>11)Dr. Harikumar Pallathadka Address of Applicant :Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140 District : Imphal State: Manipur Country: India</p>
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(57) Abstract :
 UAV-borne mobile multimedia computing with integrated cyber-physical surveillance toward a taxonomy of intelligent data processing for IoMT-enabled radar sensor networks. ABSTRACT Video synthetic aperture radar is a revolutionary radar imaging for real-time remote sensing and surveillance. This work investigates several aspects of multimedia computing in Video-SAR. The most important component of the research is its practical implications. We investigate the future of radar data processing and how new ideas for systematic design and research taxonomy may fit into this future. Video-SAR can create video sequences, unlike other imaging modes of synthetic aperture radar. This means that online monitoring and green surveillance can be conducted at any time of the day or night, regardless of the lighting conditions. Before diving into the particulars of this imaging approach, a basic overview of Video-SAR will be presented. In this study, we examine one of the most important components of Video-SAR systems: systematic design requirements and innovative visual distortions. This type of distortion, noise, and sound would not be produced by a typical imaging radar. The difficulties of processing Video-SAR data and real-world applications are also explored, along with a number of related topics, such as the general characteristics and high-performance computation of Video-SAR for radar communications via platforms of unmanned aerial vehicles.

No. of Pages : 11 No. of Claims : 5