ClearVision: Real-time Fog and Rain Removal from Video

Researchers of IIT Kharagpur have come up with real-time fog and rain removal solutions from video, which will make the delay and cancellation of trains in winter a matter of past, landing in small hilly airports safe in winter and monsoon, driving on the road safer, missile tracking after the launch more accurate and the borders of the country and open yards more secure. Research scholar Abhishek Tripathy and his supervisor Dr. Sudipta Mukhopadhyay, have proposed new algorithms in the course Ph.D. program and applied for patents in India and abroad with the help of TIFAC. The patents are granted in United States, Europe, and South Korea and are in India's examination. The technology has received the IIGP award in 2016 2017 and the FICCI RD award in 2017. With Abdul Kalam Technology Innovation National Fellowship (AKTINF) support, the technology transition is started in April 2018, and a start-up, Proficient vision Solutions Pvt Ltd is established in January 2019 for the same purpose. The same year Proficient Vision Solutions has received CII Startupreneur Award in Manufacturing sponsored by Larsen and Toubro Ltd. Research is on to deliver automated driver assistance systems and reach wider applications. Proficient Vision Solutions is looking for partners for field tests and marketing.