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Future intelligent earth observing satellites

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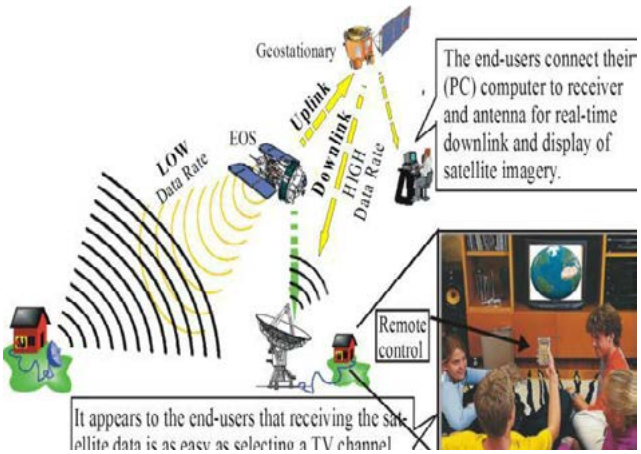
This invited paper presents the future intelligent earth observing system (FIEOS) and event-driven earth observation concepts as well as their connections to societal benefits for both decision-makers and the general public. The elucidated linkage and flow of information from FIEOS to societal benefits is interoperable. With the envisioned FIEOS, this paper focuses on: How to apply the FIEOS to increase the efficiency of monitoring natural disaster, to improve the natural disaster management, and to mitigate disasters through providing highly accurate, and reliable surveillance data for experts, analysts, and decision-makers; How to significantly increase and extend societal benefits to the future US Earth observation application strategy in, for example, real-time response to time-critical events, and disastrous environmental monitoring. Therefore, this paper presents the analysis of FIEOS to society benefit in the realms: Reducing loss of life and property from natural and human-induced disasters; improving human health and well-being; improving wealth forecasting; supporting sustainable agriculture and; serving lay people.



Biography

George Zhou completed his PhD at Wuhan University, Wuhan, China, with expertise in Earth Observing. He was a Visiting Scholar in Department of Computer Science and Technology at Tsinghua University, Beijing, China. He continued his research as an Alexander von Humboldt Fellow at Technical University of Berlin, Berlin, Germany from 1997-1998, and then became a Researcher at Ohio State University, USA from 1998 to 2000. He has published two books and more than 300 peer-reviewed papers, and has worked on 48 research grants as a Principal Investigator or a Co-principal Investigator.

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