



Cédric Virmontois (S'10–M'12–S'19) received the Engineering degree in Physics from the Institut National des Sciences Appliquées (INSA) of Toulouse in 2008 and the Ph.D. degree in Microelectronics from the Institut Supérieur de l'Aéronautique et de l'Espace (ISAE Supaero) of Toulouse in 2012. His Ph.D. research focused on displacement damage-induced degradation effects in CMOS image sensors. He modeled the degradation of the sensor parameter of performances, especially the dark current and its associated random telegraph signal and he deduced hardening-by-design techniques to mitigate space radiation effects in CMOS imagers. Cedric presently works for the Centre National d'Études Spatiales (CNES) in Toulouse, France, as Head of the Detection Chain department in the Payload and Imaging Division. His work involves the development of imagers for future space missions, electro-optical characterizations, analysis and testing of imagers and he is responsible for the technology watch on image sensors. Today, he extends his researches to several solid state imagers using ground and in-flight data in order to find generic ways to predict and mitigate space radiation effects. Cedric has served the radiation effects community as reviewer for the IEEE Nuclear and Space Radiation Effects Conference (NSREC) and for publications in the IEEE Transactions on Nuclear Science. He has authored or co-authored more than 50 papers in refereed journals, including the NSREC 2011 Outstanding Student Paper Award and the NSREC 2012 Outstanding Conference Paper Award. He also received the IEEE NPSS Radiation Effect Early Achievement Award in 2020 and the Phelps Award as a student in 2012. He is a Member of the IEEE and a Member of the NPSS and the EDS.