	Title	Transfer Learning to Generate True Color Images from GOES-16
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Abstract	Along with scientific applications, Geostationary imagery is often used to learn about	
	weather patterns through true color visualizations. NOAA/NASA's GOES-R series of	
	satellites uses the advanced baseline imager with 16-bands which, unlike previous	
	generations, does not include the green wavelength (500-565 nm) and hence cannot	
	directly generate true color images. However, Himawari, Japan's geostationary satellite,	
	uses a similar 16-band advanced Himawari imager that does include a green band (but	
	missing cirrus). In this work, we show how transfer learning with convolutional neural	
	networks can be applied across satellites to generate "virtual sensors". We apply this	
	approach to generate a green band for GOES-16 and present near true color images.	

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