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Searches for electromagnetic signatures of gravitational wave sources

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Motivated by the exciting prospect of new wealth of information that will arise from observations of gravitational and electromagnetic radiation from the same astrophysical phenomena, our community has performed a broad range of follow-up programs for LIGO/Virgo events. In this talk, I present an overview of this effort, including results of searches for signatures of the first two LIGO-triggered binary black hole mergers in the 2015-2016 observing campaign, when multiple facilities reported searches in gamma/X-rays, optical, infra-red, and radio wavelengths. I will also discuss plans for upcoming observing campaigns and long term prospects for this exciting emerging field: multi-messenger astrophysics with gravitational waves.