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1 introduction photoacoustic tomography pat also called optoacoustic tomography is a three dimensional 3 d imaging modality based on the photoacoustic pa effect although the pa effect was discovered more than a century ago by alexander graham bell it has found applications in biomedical imaging only in the last decade or so

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explores the development of several image enhancing schemes including both software and hardware approaches examines array based pat systems that are the foundation for the realization of 2 d 3 d and 4 d pat discusses photoacoustic microscopy pam and combinations of pat pam with other imaging methods

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photoacoustic tomography pat refers to imaging that is based on the photoacoustic effect although the photoacoustic effect as a physical phenomenon was first reported on by alexander graham bell in 1880 1 pat as an imaging technology was developed only after the advent of ultrasonic transducers computers and lasers 2 31

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wang lihong v photoacoustic tomography pat is an emerging imaging modality that shows great potential for preclinical research and clinical practice

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