

**Proceedings of the 11th Interdisciplinary
International Symposium on**

**Energy, Environment, Health and Visual
Communication
(INFOFEST 2021)**

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International Symposium on
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Communication
(INFOFEST 2021)**

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A Review On Breast Cancer Detection Using Artificial Intelligence

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Abstract—Advances in processing power and memory have resulted in significant growth in evaluating the potential application of AI in diverse tasks in breast imaging, expanding beyond the first usage in computer assisted detection to include diagnosis, prognosis, and response to treatment. AI methods are being developed for computer-aided detection (CADe) and diagnosis (CADx), for triaging (CADt), and for ultimate use as an autonomous reader, often with limited consideration for effect on radiologists' perception/cognitive performance and workflow. While the prospects of AI in breast cancer image interpretation are abundant and promising, they bring along challenges and trepidations. This review paper focuses on the role of AI in breast cancer image interpretation. 5 AI technologies for mammography are investigated: Transpara Mammography and Transpara DBT (ScreenPoint Medical), HealthMammo Software (Zebra Medical Vision), and ProFound AI for 2D Mammography and ProFound AI for DBT (iCAD).