

## Faculty Profile

### Dr. P. Eben Sophia

Assistant Professor,  
Department of Computer Science and Engineering  
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### Academic Background

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Degree	University	Year
Ph.D	Karunya university	2017
M.E	Karunya university	2011
B.E	Anna University	2005

### Courses Taught

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- Digital design
- Internet of Things
- Analog and digital communication
- Image processing
- Medical Electronics
- Microwave Engineering
- Data Structures
- Data Communication and Computer Networks
- Automotive Electrical and Electronic Systems
- Digital Electronics

### Research Interests

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- Medical Image Processing
- Artificial Intelligence

## Journal Publications:

1. **P. Eben Sophia**, J. Anitha. (2019) “Performance enhanced Ripplet transform based compression method for medical images”, *Journal of the International Measurement Confederation*, DOI: 10.1016/j.measurement.2019.04.036. [**Impact factor: 5.13**]
  2. **P. Eben Sophia**, J. Anitha. (2017) “A hybrid contextual compression technique using wavelet and contourlet transforms with PSO optimized prediction”, *International journal of imaging systems and technology*. DOI: 10.1002/ima.22221 [**Impact factor: 2.2**]
  3. **P. Eben Sophia**, J. Anitha. (2017) “Contextual MRI image compression using normalized Wavelet-transform coefficients and prediction”, *IETE Journal of Research*. DOI 10.1080/03772063.2017.1309998. [**Impact factor: 1.877**]
  4. **P. Eben Sophia**, J. Anitha. (2016) “Contourlet transform based sub-band normalization for region based medical image compression” *Intelligent Decision Technologies*, Vol. 1, Preprint: 1-7. DOI 10.3233/IDT-160265. [**Scopus Indexed**]
  5. **P. Eben Sophia**, J. Anitha. (2016) “Enhanced method of using contourlet transform for Medical image compression”, *International Journal of Advanced Intelligence Paradigms*, Accepted. [**Scopus Indexed**]
  6. **P. Eben Sophia**, J. Anitha. (2015) “A systematic review on advances and perspectives of image compression in telemedicine” *International Journal of Advanced Intelligence Paradigms*, 7(2), 136-155. [**Scopus Indexed**]
  7. Aravinth, T.S., **Eben Sophia**, **P.** (2020) “Monitoring of underground infrastructure of iot and analysis of path loss” *International Journal of Advanced Science and Technology*, 2020, 29(8 Special Issue), pp. 524–531 [**Scopus Indexed**]
  8. **Eben Sophia**, et.al. (2019) “PIR and IR sensor based smart home automation system using IOT for energy saving applications” *International Journal of Innovative Technology and Exploring Engineering*, 2019, 8(8), pp. 565–569. [**Scopus Indexed**]
  9. **Eben Sophia**, P. et.al. (2019) “Image enhancement technique using mean quantization transforms and equalization” *International Journal of Innovative Technology and Exploring Engineering*, 2019, 8(8 S), pp. 561–564 [**Scopus Indexed**]
  10. **Eben Sophia**, **P.**, et.al. (2019), “Five-point feature recognition of face and body for driver safety in real time mobile applications” *International Journal of Innovative Technology and Exploring Engineering*, 2019, 8(8), pp. 574–579 [**Scopus Indexed**]
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