

Md Akhtaruzzaman Adnan  
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## Biography

Md Akhtaruzzaman Adnan is a PhD student at Center for Health Informatics, Australian Institute of Health Innovation. His research is focused on using sustainable approaches to mitigate the gaps between patient safety and cybersecurity. Before joining AIHI, he was a faculty member in the Department of Computer Science and Engineering at University of Asia Pacific, Bangladesh.

## Qualifications

Wireless Sensor Networks, MSc, Universiti Teknologi Malaysia

Computer Science, BSc, Islamic University of Technology  
22 Dec 2005 → 20 Sep 2009

## Employment

### Doctor of Philosophy, PHD;AIHI

Doctor of Philosophy, Utilizing Sustainable Safety Models for Closing the Gap between Cyber Security and Patient Safety  
Faculty of Medicine and Health Sciences  
Macquarie University  
30 May 2018 → present

### Assistant Professor

University of Asia Pacific  
Farmgate, Dhaka, Bangladesh  
12 Nov 2015 → 13 Jun 2018

### Lecturer

University of Asia Pacific  
Farmgate, Dhaka, Bangladesh  
8 Nov 2013 → 11 Nov 2015

## Research outputs

### Smart health care system for underdeveloped countries

Arefin, M. S., Surovi, T. H., Snigdha, N. N., Mridha, M. F. & Adnan, M. A., 5 Dec 2017, *2017 IEEE International Conference on Telecommunications and Photonics (ICTP)*. Institute of Electrical and Electronics Engineers (IEEE), p. 28-32 5 p.

### A new approach to enhance internet banking security

Mridha, M. F., Nur, K., Saha, A. K. & Adnan, M. A., 22 Feb 2017, In : *International Journal of Computer Applications*. 160, 8, p. 35-39 5 p.

### Krill herd based clustering algorithm for wireless sensor networks

Shopon, M., Adnan, M. A. & Mridha, M. F., 13 Dec 2016, *2016 International Workshop on Computational Intelligence (IWCI)*. Piscataway, NJ: Institute of Electrical and Electronics Engineers (IEEE), p. 96-100 5 p.

### A novel cuckoo search based clustering algorithm for wireless sensor networks

Adnan, M. A., Razzaque, M. A., Abedin, M. A., Salim Reza, S. M. & Husein, M. R., 29 Dec 2015, *Advanced Computer and Communication Engineering Technology: Proceedings of ICOCOE 2015*. Sulaiman, H. A., Rahim, Y. A., Othman, M. A.,

Pee, N. C. & Othman, M. F. I. (eds.). Springer, Springer Nature, p. 621-634 14 p. (Lecture Notes in Electrical Engineering; vol. 362).

**Design and implementation of an efficient EnConverter for Bangla language**

Mridha, M. F., Saha, A. K., Adnan, M. A., Hussein, M. R. & Das, J. K., 22 Aug 2015, In : ARPN Journal of Engineering and Applied Sciences. 10, 15, p. 6543-6548 6 p.

**Bio-mimic optimization strategies in wireless sensor networks: a survey**

Adnan, M. A., Razzaque, M. A., Ahmed, I. & Isnin, I. F., 24 Dec 2013, In : Sensors. 14, 1, p. 299-345 47 p.

**Energy efficient gas emission monitoring systems using Wireless Sensor Networks**

Razzaque, M. A., Adnan, M. A. & Abdullah, A. H., 5 Jul 2013, *2013 Fifth International Conference on Ubiquitous and Future Networks (ICUFN)*. Institute of Electrical and Electronics Engineers (IEEE), p. 588-593 6 p.

**A comparative study of Particle Swarm Optimization and Cuckoo Search techniques through problem-specific distance function**

Adnan, M. A. & Razzaque, M. A., 22 Mar 2013, *2013 International Conference of Information and Communication Technology (ICoICT)*. IEEE:Institute of Electrical Electronics Engineers Inc, p. 88-92 5 p.

**Hybrid-learning based data gathering in wireless sensor networks**

Razzaque, M. A., Fauzi, I. & Adnan, A., 12 Mar 2013, *Intelligent Information and Database Systems: 5th Asian Conference, ACIIDS 2013, Proceedings, Part II*. Selamat, A., Nguyen, N. T. & Haron, H. (eds.). Springer, Springer Nature, p. 90-99 10 p. (Lecture Notes in Artificial Intelligence; vol. 7803).

**High dimensional microarray data classification using correlation based feature selection**

Hassan, A. & Adnan, M. A., 27 Feb 2012, *2012 International Conference on Biomedical Engineering (ICoBE)*. Institute of Electrical and Electronics Engineers (IEEE), p. 319-321 3 p.