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## A review on channel access control mechanism to improve the dependability in body area networks (Conference Paper)

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### Abstract

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The Body Area Networks (BANs) are quick growth to develop e-health care system for monitoring to various patients and are convenient and accessible for both patients and physicians. Many researchers are focused on different area like-signal processing, biosensor design, power efficiency and so on in BANs. However, still numerous issues are plagued in BANs to development and implementation effectively at present. One of these is to increase dependability which includes-reliability, security, availability etc from both communication perspectives intra and extra BAN. This review paper aims to investigate the exist BANs and highlights the merits and demerits of the current BANs. In addition, the proposed paper displays the challenges of present BANs and proposed a mechanism to improve the dependability of BANs. © 2014 IEEE.

### Author keywords

BANs   Biosensors   Congestion control   Dependability   WSNs

### Indexed keywords

Engineering controlled terms:   Biosensors   Congestion control (communication)   Networks (circuits)   Signal processing

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- ☐

1 Li, M., Lou, W., Ren, K.

**Data security and privacy in wireless body area networks**

(2010) *IEEE Wireless Communications*, 17 (1), art. no. 5416350, pp. 51-58. Cited 226 times.  
 doi: 10.1109/MWC.2010.5416350

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- ☐

2 Rashwand, S., Mišić, J., Khazaei, H.

**Performance analysis of IEEE 802.15.6 under saturation condition and error-prone channel**

(2011) *2011 IEEE Wireless Communications and Networking Conference, WCNC 2011*, art. no. 5779296, pp. 1167-1172. Cited 37 times.  
 ISBN: 978-161284254-7  
 doi: 10.1109/WCNC.2011.5779296

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- ☐

3 Chen, M., Gonzalez, S., Vasilakos, A., Cao, H., Leung, V.C.M.

**Body area networks: A survey**

(2010) *Mobile Network Applications*. Cited 34 times.  
 © Springer Science + Business Media, LLC
- ☐

4 Hovakeemian, Y., Naik, K., Nayak, A.

**A survey on dependability in body area networks**

(2011) *2011 5th International Symposium on Medical Information and Communication Technology, ISMICT 2011*, art. no. 5759786, pp. 10-14. Cited 15 times.  
 ISBN: 978-142449443-9  
 doi: 10.1109/ISMICT.2011.5759786

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- ☐

5 Singh, M., Jain, N.

**A survey on integrated wireless healthcare framework for continuous physiological monitoring**

(2014) *International Journal of Computer Applications*, 86. Cited 4 times.
- ☐

6 Yaghmaee Moghaddam, M.H., Adjero, D.

**A novel congestion control protocol for vital signs monitoring in wireless biomedical sensor networks**

(2010) *IEEE Wireless Communications and Networking Conference, WCNC*, art. no. 5506650. Cited 9 times.  
 ISBN: 978-142446398-5  
 doi: 10.1109/WCNC.2010.5506650

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- 
- ☐ 7 Ren, Z., Zhou, G., Pyles, A., Keally, M., Mao, W., Wang, H.  
**BodyT2: Throughput and time delay performance assurance for heterogeneous BSNs**  
(2011) *Proceedings - IEEE INFOCOM*, art. no. 5935107, pp. 2750-2758. Cited 19 times.  
ISBN: 978-142449921-2  
doi: 10.1109/INFOCOM.2011.5935107  
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- 
- ☐ 8 Rezaee, A.A., Yaghmaee, M.H., Rahmani, A.M.  
**Class based congestion control method for healthcare wireless sensor networks**  
(2011) *International Geoinformatics Research and Development Journal*, 2 (4). Cited 3 times.
- 
- ☐ 9 Rezaee, A.A., Yaghmaee, M.H., Rahmani, A.M., Mohajerzadeh, A.H.  
**HOCA: Healthcare aware optimized congestion avoidance and control protocol for wireless sensor networks**  
(2013) *Journal of Network and Computer Applications*. Cited 2 times.
- 
- ☐ 10 Samiullah, Md., Abdullah, S.M., Imamul Hoq Bappi, A.F.M., Anwar, S.  
**Queue management based congestion control in wireless body sensor network**  
(2012) *2012 International Conference on Informatics, Electronics and Vision, ICIEV 2012*, art. no. 6317349, pp. 493-496. Cited 11 times.  
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