

REFERENCES

- ABDALLA, A.N., NUBLI, M., SIONG, T.C., KHAIRI, F. and NORAZIAH, A., 2011. Enhancement of real-time multi-patient monitoring system based on wireless sensor networks. *International Journal of Physical Sciences*, **6**(4), pp. 664-670.
- APPELBOOM, G., CAMACHO, E., ABRAHAM, M.E., BRUCE, S.S., DUMONT, E.L., ZACHARIA, B.E., D'AMICO, R., SLOMIAN, J., REGINSTER, J.Y. and BRUYÈRE, O., 2014. Smart wearable body sensors for patient self-assessment and monitoring. *Archives of Public Health*, **72**(1), pp. 28.
- BAGHA, S. and SHAW, L., 2011. A real time analysis of PPG signal for measurement of SpO₂ and pulse rate. *International journal of computer applications*, **36**(11), pp. 45-50.
- BLACK, A., ANANDAN, C., CRESSWELL, K., PAGLIARI, C., MCKINSTRY, B., PROCTER, R., MAJEED, A. and SHEIKH, A., 2008. The Impact of eHealth on the Quality & Safety of Health Care. *London: Imperial college of London*, .
- DEEN, M.J., 2015. Information and communications technologies for elderly ubiquitous healthcare in a smart home. *Personal and Ubiquitous Computing*, **19**(3-4), pp. 573-599.
- DEEPA, A. and KUMAR, P.N., 2013. Patient health monitoring based on ZigBee Module, *Optical Imaging Sensor and Security (ICOSS), 2013 International Conference on 2013*, IEEE, pp. 1-4.
- FERNÁNDEZ-LÓPEZ, H., 2011. Remote vital signs monitoring based on wireless sensor networks.
- FERRARI, M. and QUARESIMA, V., 2012. A brief review on the history of human functional near-infrared spectroscopy (fNIRS) development and fields of application. *NeuroImage*, **63**(2), pp. 921-935.
- GIUFFRIDA, A., EL-WAHAB, S. and ANTA, R., 2009. *Mobile health: the potential of mobile telephony to bring health care to the majority*, .
- GUPTA, G.S., MUKHOPADHYAY, S., DEVLIN, B. and DEMIDENKO, S., 2007. Design of a low-cost physiological parameter measurement and monitoring device, *Instrumentation and Measurement Technology Conference Proceedings, 2007. IMTC 2007. IEEE 2007*, IEEE, pp. 1-6.
- HONG, Y., KIM, I., AHN, S.C. and KIM, H., 2010. Mobile health monitoring system based on activity recognition using accelerometer. *Simulation Modelling Practice and Theory*, **18**(4), pp. 446-455.
- HOSSAIN, M.S. and MUHAMMAD, G., 2016. Cloud-assisted industrial internet of things (iiot)-enabled framework for health monitoring. *Computer Networks*, **101**, pp. 192-202.
- KAMAT, V., 2002. Pulse oximetry. *Indian J. Anaesth*, **46**(4), pp. 261-268.
- KING, K.R., GRAZETTE, L.P., PALTOO, D.N., MCDEVITT, J.T., SIA, S.K., BARRETT, P.M., APPLE, F.S., GURBEL, P.A., WEISSLEDER, R., LEEDS, H., ITURRIAGA, E.J., RAO, A.K., ADHIKARI, B., DESVIGNE-NICKENS, P., GALIS, Z.S. and LIBBY, P., 2016. *Point-of-Care Technologies for Precision Cardiovascular Care and Clinical Research: National Heart, Lung, and Blood Institute Working Group*.
- KIOUMARS, A.H., 2011. *Wireless data acquisition and monitoring for healthcare services systems: a thesis in the partial fulfillment of the requirement for the Masters of Engineering (Electronics and Computer Systems)*, Massey University, Palmerston North, New Zealand, .

KOKANUCH, A. and TUNTRABUNDIT, K., 2017. Knowledge sharing capability in healthcare organizations. *Journal of Asia Business Studies*, **11**(2), pp. 135-151.

LUO, Q., NIOKA, S. and CHANCE, B., 1997. Functional near-infrared imager, *Optical Tomography and Spectroscopy of Tissue: Theory, Instrumentation, Model, and Human Studies II 1997*, International Society for Optics and Photonics, pp. 84-94.

MAJUMDER, S., MONDAL, T. and DEEN, M.J., 2017. Wearable sensors for remote health monitoring. *Sensors*, **17**(1), pp. 130.

MAKSIMOVIĆ, M., VUJOVIĆ, V. and PERIŠIĆ, B., 2015. A custom Internet of Things healthcare system, *Information Systems and Technologies (CISTI), 2015 10th Iberian Conference on 2015*, IEEE, pp. 1-6.

MANOJPRABU¹, M. and DHULIPALA, V.S., Wireless Physiological Parameter Monitoring and Recording System.

MCARDLE, W.D., KATCH, F.I. and KATCH, V.L., 2010. *Exercise physiology: nutrition, energy, and human performance*. Lippincott Williams & Wilkins.

NEMATI, E., DEEN, M.J. and MONDAL, T., 2012. A wireless wearable ECG sensor for long-term applications. *IEEE Communications Magazine*, **50**(1),.

PANTELOPOULOS, A. and BOURBAKIS, N.G., 2010. A survey on wearable sensor-based systems for health monitoring and prognosis. *IEEE Transactions on Systems, Man, and Cybernetics, Part C (Applications and Reviews)*, **40**(1), pp. 1-12.

SIRISHA, B., SRADDHA, T. and VIJAYANAND, K., 2013. Real-time multi-patient monitoring system using ARM and wireless sensor network. *International Journal of Communication Network Security*, **2**(2), pp. 41-47.

SUH, M., EVANGELISTA, L.S., CHEN, C., HAN, K., KANG, J., TU, M.K., CHEN, V., NAHAPETIAN, A. and SARRAFZADEH, M., 2010. An automated vital sign monitoring system for congestive heart failure patients, *Proceedings of the 1st ACM International Health Informatics Symposium 2010*, ACM, pp. 108-117.

WYNE, M.F., VITLA, V.K., RAOUGARI, P.R. and SYED, A.G., 2009. Remote patient monitoring using GSM and GPS technologies. *Journal of computing sciences in colleges*, **24**(4), pp. 189-195.

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