

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 3, Issue 2, April 2023

Animal Healthcare Neckband

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Abstract: There is an increasing number of issues regarding various animal health condition and movements. And in recent era, animals have become an integral part of a human life. And hence, an animal health monitoring and tracking system using Bluetooth module is developed. Bluetooth Technology is more and more adopted in a wide range of applicative scenarios. To track the health of an animal, sensors such as the temperature sensor, heart rate sensor, pulse rate sensor and the respiratory sensor are used. The Bluetooth module would be connected to a Graphical User Interface (GUI) to show the digital data. With the advancement in technology and existence of internet, we practically can connect any device to internet and implement the concept of IOT.

Keywords: Bluetooth, Android, Monitoring, Animal health, Detecting, IOT, etc

REFERENCES

- [1]. Rita Brugarolas, Tahmid Latif, James Dieffenderfer, Katherine Walker, Sherrie Yuschak, Barbara L. Sherman, David L. Roberts, and Alper Bozkurt, "Wearable Heart Rate Sensor System for Wireless Canine Health Monitoring", IEEE Sensor Journal, May 2016.
- [2]. Hai Wang, Abraham O. Fapojuwo, and Robert J. Davies, "A Wireless Sensor Network for Feedlot Animal Health Monitoring", IEEE Sensor Journal, August 2016.
- [3]. Anuj Kumar and Gerhard P. Hancke, "A Bluetooth-Based Animal Health Monitoring System", IEEE Senor Journal, January 2015.
- [4]. Greg Byrd, North Carolina State University, "Tracking Cows Wirelessly", IEEE Journals, June 2015.
- [5]. Luca Catarinucci, Riccardo Colella, Luca Mainetti, Luigi Patrono, and, Stefano Pieretti, "Smart CLOUD Antenna System for Indoor Tracking and Behavior Analysis of Small Animals in Colony Cages", IEEE Senor Journal, April 2014.
- [6]. Sando Carrara, Leandre Bolomey, Cristina Boero and Fabio Grassi, "Remote System for Monitoring Animal Models With Single-Metabolite Bio-Nano-Sensors", IEEE Journals, March 2013.
- [7]. Samina Ehsan, Kyle Bradford, Max Brugger, Bechir Hamdaoui, Yevgeniy Kovchegov, Douglas Johnson, and Mounir Louhaichi," Design and Analysis of Delay-Tolerant Sensor Networks for Monitoring and Tracking Free-Roaming Animals", IEEE Transactions on Wireless Communications, March 2012.
- [8]. K.H. Kwong, T.T Wu, H.G Goh, K. Sasloglou, B. Stephen, I. Glover, C. Shen, W. Du, C. Michie, and I. Andonvoic, "Implementation of herd management systems with wireless sensor networks", IEEE Journals, January 2011.
- [9]. W. Kenneth Ward, Stephen Van Albert, Michael Bodo, Frederick Pearce, Rachael Gray, Shane Harlson, and Mihailo V. Rebec, "Design and Assessment of a Miniaturized Amperometric Oxygen Sensor in Rats and Pigs", IEEE Sensors Journals, July 2010.
- [10]. Yuan-Hsing Shih, Ting-Chen Ke, Mao-Tsun Lin, and Ming-Shing Young, "Sensor System for Enhanced Detection of Locomotion and Standing Behavior in Rats", IEEE Sensors Journals, April 2008.
- [11]. K.H. Kwong, T.T Wu, H.G Goh, K. Sasloglou, B. Stephen, I. Glover, C. Shen, W. Du, C. Michie, and I. Andonvoic, "Implementation of herd management systems with wireless sensor networks", IEEE Journals, January 2011.
- [12]. W. Kenneth Ward, Stephen Van Albert, Michael Bodo, Frederick Pearce, Rachael Gray, Shane Harlson, and Mihailo V. Rebec, "Design and Assessment of a Miniaturized Amperometric Oxygen Sensor in Rats and Pigs", IEEE Sensors Journals, July 2010.

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IJARSCT



Impact Factor: 7.301

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- [13]. Yuan-Hsing Shih, Ting-Chen Ke, Mao-Tsun Lin, and Ming-Shing Young, "Sensor System for Enhanced Detection of Locomotion and Standing Behavior in Rats", IEEE Sensors Journals, April 2008.
- [14]. Raymond E. Floyd," Cloud in animal tracking application", IEEE Sensor Journal, October 2015.
- [15]. Manpreet, Jyoteesh Malhotra, "Bluetooth Technology: Current Status and Future Scope", 2015 International Conference on Computer and Computational Sciences (ICCCS).

