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### **List of Publications**

June 02, 2022

#### **JOURNALS**

- B. Chakravarthi, A. K. Patil, J. Y. Ryu, A. Balasubramanyam and Y. H. Chai, **2022**, "Scenario-based Sensed Human Motion Editing and Validation through the Motion-Sphere," in **IEEE Access**.
- Ryu, J., Patil, A.K., Chakravarthi, B., Balasubramanyam, A., Park, S. and Chai, Y., **2022**. Angular features-based human action recognition system for a real application with subtle unit actions. **IEEE Access**.
- Patil, A.K., Balasubramanyam, A., Ryu, J.Y., Chakravarthi, B. and Chai, Y.H., **2021**. An Open-Source Platform for Human Pose Estimation and Tracking Using a Heterogeneous Multi - Sensor System. **Sensors**, 21(7), p.2340.
- Patil, A.K., Balasubramanyam, A., Ryu, J.Y., Chakravarthi, B. and Chai, Y.H., **2020**. Fusion of Multiple Lidars and Inertial Sensors for the Real-Time Pose Tracking of Human Motion. **Sensors**, 20(18), p.5342.
- Balasubramanyam, A., Patil, A.K., Chakravarthi, B., Ryu, J.Y. and Chai, Y.H., **2020**. Motion-Sphere: Visual Representation of the Subtle Motion of Human Joints. **Applied Sciences**, 10(18), p.6462.
- Bharatesh Chakravarthi S. B., Prof. D. Jayaramaiah, 2013, Seamless Interoperability Across LTE And WiMAX Using Vertical Handover Mechanism, International Journal of Engineering Research & Technology (**IJERT**) Volume 02, Issue 06 (June **2013**)

#### **CONFERENCES**

- Balasubramanyam, A., Patil, A.K., Chakravarthi, B., Ryu, J. and Chai, Y.H., 2021, October. Kinematically Admissible Editing of the Measured Sensor Motion Data for Virtual Reconstruction of Plausible Human Movements. In **2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC)** (pp. 283-288). **IEEE**
- Chakravarthi, B., Patil, A.K., Balasubramanyam, A., Ryu, J.Y. and Chai, Y.H., 2020. Sensed Unit Motion based Authoring for the Precise Human Movements. **Korean Society of Mechanical Engineers** Spring Conference, **2020.12**, pp 1242-1247.
- Kim, D., Chakravarthi, B., Kim, S.H., Balasubramanyam, A., Chai, Y.H. and Patil, A.K., 2020, March. MotionNote: A Novel Human Pose Representation. In **2020 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)** (pp. 697-698). **IEEE**.
- Chakravarthi, B., Joseph, M., Shuai, C., Kim, S.H. and Chai, Y.H., 2019. Quaternions Based Intuitive Visualization for Tracking Weightlifting Exercises. **The Korean Institute of Information Scientists and Engineers**, 2019, pp.1052-1054.

- Ashok Kumar Patil, Bharatesh Chakravarthi S B, Seong Hun Kim, Adithya Balasubramanyam, Jae Yeong Ryu, and Young Ho Chai. 2019. Pilot experiment of a 2D trajectory representation of quaternion-based 3D gesture tracking. In Proceedings of the **ACM SIGCHI** Symposium on Engineering Interactive Computing Systems (**EICS '19**).
- Lohith, J.J. and Chakravarthi, B., 2015 , June. Intensifying the lifetime of Wireless Sensor Network using a centralized energy accumulator node with RF energy transmission. In **2015 IEEE International Advance Computing Conference (IACC)** (pp. 180-184). **IEEE**.

Sincerely,  
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