

## 学位論文

- [1] 執筆者名:Tripathi, Gyanendra Nath

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による運動軌道解析法に関する研究

Analytical Method for Synergy Based Motion Control Supported by Joint Energy and  
Coordination Measure Toward Rehabilitation and Robotics

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- [2] 執筆者名:Gyanendra Nath Tripathi

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## 著書

- [1] 著者名 :Tripathi, Gyanendra Nath(共著)

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- [1] Tripathi, G. N. (2025). Human Synergy Based Analysis to Control of Rehabilitation Robot for Adaptive Assistance. Journal of Mechatronics and Robotics, 9 (1), 24-34. **【査読有】【責任著者】**
- [2] Vallidevi Krishnamurthy; Kaviyashree R M; Kavitha Muthusubash; Sonali Agarwal; Gyanendra Nath Tripathi, “PATROL’S PAL: Anomaly Face Recognition from Low-Quality CCTV Footage”, 9th International Conference on Computer Vision & Image Processing (CVIP 2024 )19-21 December, 2024 IIITDM Kancheepuram **\*【査読有】**
- [3] Tripathi, G. N., & Wagatsuma, H. “PCA-Based Algorithms to Find Synergies for Humanoid Robot Motion Behavior”, International Journal of Humanoid Robotics, Vol.13, No.02 (21 pages), (2016): 1550037 **【査読有】【責任著者】 被引用数(7)**
- [4] Dimitrova, M., Wagatsuma, H., Tripathi, G. N., & Ai, G. “Adaptive and intuitive interactions with

- socially-competent pedagogical assistant robots”, In 2015 International Conference on Information Technology Based Higher Education and Training (ITHET) (pp. 1-6). IEEE \*【査読有】被引用数(7)
- [5] Tripathi, G. N., Wagatsuma, H., “A Comparison of Joint Energy for Sit-Stand Motion Generated by Human learned Trajectories and Artificial Trajectories”, 19th International Conference of Mechatronics Technology (ICMT-2015), (4 pages) Tokyo, Japan 【査読有】【責任著者】
- [6] Tripathi, G. N., Wagatsuma, H., Dimitrova, M., Vircikova, M., & Sinčák, P. “A method to evaluate intuitive sense by using a robotic tool: Towards engineering for assistive technology and accessibility”, Proceedings of Universal Access in Human-Computer Interaction. Access to Interaction: 9th International Conference, UAHCI 2015, August 2-7, Proceedings, Part II 9, pp. 561-569. Springer International Publishing, 2015 \*【査読有】【責任著者】被引用数(1)
- [7] Tripathi, G. N., & Wagatsuma, H. Brain, “Mind and Body: Motion Behaviour Planning, Learning and Control in view of Rehabilitation and Robotics,” INCF 日本ノード国際ワークショップ Advances in Neuroinformatics 3 (2015): 21.【責任著者】
- [8] Tripathi, G. N., Wagatsuma, H. “Anger is heat-conceptual metaphors of emotions in a robotic study,” 情報処理学会研究報告. ICS,[知能と複雑系], 2014(3), 1-2. 【責任著者】
- [9] Gyanendra, NATH TRIPATHI, KATSUKI Yuya, and SHOJI Kenta. “Exploring of Neurorobotic Approaches Bridges Between Human Measurement Data and Model-Based Analyses-A Case of Standing-Up Motions for Rehabilitation in Developmental Stages of Cerebral Palsy and Convalescence Stage of Stroke.” INCF 日本ノード国際ワークショップ Advances in Neuroinformatics 2 (2014): 36. 【責任著者】
- [10] G.N. Tripathi, Y Katsuki, K Shoji, H Wagatsuma, “Neurorobotic Analysis of Standing-Up Motion for Development of An Assistive Device,” POSTECH-KYUTECH Joint Workshop on Neuroinformatics, Kitakyushu, Japan, 14, 43-44, 2014. 【責任著者】
- [11] Saito, M., Tripathi, G. N., & Wagatsuma, H. “A Neurorobotic Approach of Emotion: Implemented Neurodynamics Mediate a Coupling Between Top-Down Abductive Inference and Bottom-Up Sensations”, Frontiers in Neuroinformatics Conference Abstract: Neuroinformatics 2014. doi: 10.3389/conf.fninf.2014.18.00036 【査読有】
- [12] Tripathi, G. N., Chik, D., & Wagatsuma, H. “How Difficult Is It for Robots to Maintain Home Safety?- A Brain-Inspired Robotics Point of View”, Proceedings of Neural Information Processing: 20<sup>th</sup> International Conference, ICONIP 2013, Daegu, Korea, November 3-7, 2013. Proceedings, Part I 20, pp. 528-536. Springer Berlin Heidelberg, 2013 【査読有】【責任著者】被引用数(3)
- [13] Chik, D., Tripathi, G. N., & Wagatsuma, H. “A Method to Deal with Prospective Risks at Home in Robotic Observations by Using a Brain-Inspired Model”, Proceedings of Neural Information Processing: 20th International Conference, ICONIP 2013, Daegu, Korea, November 3-7, 2013. Proceedings, Part III 20, pp. 33-40. Springer Berlin Heidelberg, 2013 【査読有】被引用数(3)
- [14] Tripathi, G. N., Kant, B., & Cheema, G. S. “A Low Cost Wireless Interfacing Device between PS/2

Keyboard and Display”, International Journal on Recent Trends in Engineering and Technology Vol. 8, No. 2, (4 pages) Jan 2013 \*【査読有】【責任著者】

- [15] Tripathi, G. N., V. Rihani “Motion planning of an autonomous mobile robot using artificial neural network,” Proceedings of Computer Science & Information Technology (CS & IT), (7 pages), 2012  
arXiv preprint arXiv:1207.4931 (2012) \*【査読有】【責任著者】被引用数(9)