Brief Resume of Mr. Vikas Paradkar

Mr. Vikas Paradkar, M.Tech. (FMPE)
Scientist
ICAR-Mahatma Gandhi Integrated Farming Research Institute (MGIFRI), Piprakothi- 845429, Motihari, East Champaran, Bihar
Email: VIKAS.PARADKAR@icar.gov.in, vikasparadker@gmail.com
Born: Madhya Pradesh, India

Research Specialization

Farm machinery and Power engineering-Machinery management, tractors, design of machinery, electronics in agriculture, and robotics in agriculture.

Academic Background

2010-2014 B.Tech. in Agricultural Engineering at Acharya N G Ranga Agriccultural University Hyderabad with 8.11 CGPA

2014-2016 M. Tech in Farm Machinery and power engineering at Indian institute of technology kharagpur with 8.42 CGPA (2014-16)

2016-2020 Research scholar at Indian Institute of TechnologyKharagpur, project entiteled Design and Development of robotic transplanter for vegetable pot seedlings.

Professional Service Experience

2020-contd. Scientist ICAR- Mahatma Gandhi Integrated Farming Research Institute (MGIFRI), Motihari, Bihar

Awards, Honours & Recognitions

2014 Qualified Graduate Aptitude Test Exam (Ag. Engineering GATE 2014)with all India rank 26th

2010 Qualified AIEEA exam with all India rank 470

Publications

Total 11: Research papers 9, Books / Book Chapters 1, Patent 1

Best 8 Publications

1. Khadatkar, A., Pandirwar, A.P. and **Paradkar, V**., 2023. Design, development and application of a compact robotic transplanter with automatic seedling picking mechanism for plug-type seedlings. Scientific Reports, 13(1): 1883.
2. Rahul, K., Raheman, H. and **Paradkar, V**. 2019. Design and development of a 5R 2DOF parallel robot arm for handling paper pot seedlings in a vegetable transplanter. ***Computers and Electronics in Agriculture***, 166: 105014.
3. **Paradkar, V**., Raheman, H. and Rahul, K. 2021. Development of a metering mechanism with serial robotic arm for handling paper pot seedlings in a vegetable transplanter. ***Artificial Intelligence in Agriculture***, 5: 52-63.
4. Rahul, K., Raheman, H. and **Paradkar, V**. 2020. Design of a 4 DOF parallel robot arm and the firmware implementation on embedded system to transplant pot seedlings. ***Artificial Intelligence in Agriculture***, 4: 172-183**.**
5. Jayraj, P., Machavaram, R., Sahu, G. and **Paradkar, V.** 2019. Measurement of Morphometric Dimensions and Mechanical Properties of Rohu Fish for Design of Processing Machines. ***Journal of aquatic food product technology***, 28(2): 150-164.
6. Sahu, G., Vinoda, N., Monisha, P., **Paradkar, V**. and Kumar, N. 2017. Studies on drying

of osmotically dehydrated onion slices. **Int. J. Curr. Microbial. App. Sci,** 6(9): 129-141.

7. Raheman, H., Rahul, K. and **Paradkar, V.** 2019. A system for automatic conveying and pickup mechanism in a pot seedling vegetable transplanter. ***IN Patent App. 201,931,021,132*.**

8. **Paradkar, V**. and Sahu, G. 2018. Studies on drying of osmotically dehydrated apple slices. **International Journal of Current Microbiology and Applied Sciences**, 7(11): 633-642.

9. Jagadale, M., Shrivastava, P., **Paradkar, V**., Bijarniya, H. and Murthy, G.R.K. 2021. Farm Mechanization to Improve Energy Efficiency and Drudgery Reduction. In: Ch. Srinivasaraoet al. (Eds). Agricultural Research, Technology and Policy: Innovations and Advances, **ICAR-National Academy of Agricultural Research Management (NAARM),** Hyderabad, Telangana, India, pp307-332.

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