

Ravi Prakash JOSHI

PERSONAL DATA

ADDRESS & DATE OF BIRTH: Isegaoka, Kitakyushu, Japan | 05 August 1990
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PUBLICATIONS

- [1] Riby Abraham Bobby, Ravi Prakash, Subir Kumar Saha, Takafumi Matsumaru, Pratyusha Sharma, and Siddhartha Jaitly. "Calibration and statistical techniques for building an interactive screen for learning of alphabets by children". In: *International Journal of Advanced Robotic Systems* 14.3 (2017), p. 1729881417703939.
- [2] Ravi Joshi, Rithul Perathara, Rolyn Labuguen, Nishanth Koganti, and Tomohiro Shibata. "Estimating 3D Hand Location for Clothing Assistance Initialization Using Dynamic Movement Primitives". Proceedings of the 35th Annual Conference of Robotics Society of Japan, unpublished. 2017.
- [3] Ravi P. Joshi, Nishanth Koganti, and Tomohiro Shibata. "Robotic cloth manipulation for Clothing Assistance task using Dynamic Movement Primitives". In: *Proceedings of the Advances in Robotics*. AIR '17. New Delhi, India: ACM, 2017, 14:1-14:6. ISBN: 978-1-4503-5294-9. DOI: [10.1145/3132446.3134878](https://doi.org/10.1145/3132446.3134878).
- [4] Ratan S Othayoth, Rajeevlochana G Chittawadigi, Ravi P Joshi, and Subir K Saha. "Robot kinematics made easy using RoboAnalyzer software". In: *Computer Applications in Engineering Education* (2017).
- [5] Krati Saxena, Rollyn Labuguen, Ravi Prakash Joshi, Nishanth Koganti, and Shibata Tomohiro. "A Study on Human-Robot Collaboration for Table-setting Task". In: *Robotics and Biomimetics (ROBIO), IEEE International Conference on*. IEEE. 2017.
- [6] Vishal Gaurav, Nishanth Koganti, Riku Nakata, Ravi Prakash Joshi, and Tom Shibata. "Cloth Extremity Detection from a Clutter of Clothes using Bayesian GP-LVM". In: *International session on Robotics, Mechatronics and Control, Robotics Society of Japan*. 2016.
- [7] Vishal Gaurav, Nishanth Koganti, Riku Nakata, Ravi Prakash Joshi, and Tom Shibata. "Extremity Detection from a Pile of Garments using Bayesian GP-LVM". Workshop on Assistance and Service Robotics in a Human Environment (ASROB), Intelligent Robots and Systems (IROS), IEEE/RSJ International Conference on, unpublished. 2016.
- [8] Ratan Sadanand, Ravi Prakash Joshi, Rajeevlochana G Chittawadigi, and Subir Kumar Saha. "Virtual Experiments for Integrated Teaching and Learning of Robot Mechanics Using RoboAnalyzer". In: *CAD/CAM, Robotics and Factories of the Future*. Springer, 2016, pp. 59-68.
- [9] Arun Dayal Udai, Subir Kumar Saha, Ravi Prakash Joshi, and Rattan Sadanand. "Force Control of Robot Manipulator using Industrial Servo Drives". In: (2016).
- [10] RP Joshi, RA Bobby, SK Saha, and T Matsumaru. "SAKSHAR: An Image-projective Desktop Varnamala Trainer (IDVT) for Interactive Learning of Alphabets". In: *Developing Countries Forum, Robotics and Automation (ICRA), IEEE International Conference on*. IEEE. 2015.
- [11] R Sadanand, RG Chittawadigi, RP Joshi, and SK Saha. "Virtual robots module: an effective visualization tool for robotics toolbox". In: *Proceedings of the 2015 Conference on Advances In Robotics*. ACM. 2015, p. 26.

- [12] P Sharma, RP Joshi, RA Bobby, SK Saha, and T Matsumaru. "Projectable interactive surface using microsoft kinect V2: Recovering information from coarse data to detect touch". In: *IEEE/SICE International Symposium on System Integration (SII)*. IEEE. 2015, pp. 795–800.
- [13] Arun Dayal Udai, Ravi Prakash Joshi, and Subir Kumar Saha. "Depth-based localization for robotic peg-in-tube assembly". In: *Intelligent Robots and Systems (IROS), IEEE/RSJ International Conference on*. IEEE. 2015, pp. 3538–3543.
- [14] RP Joshi, RA Bobby, SK Saha, and T Matsumaru. "SAKSHAR: An Image-projective Desktop Varnamala Trainer (IDVT) for Interactive Learning of Alphabets". 8th International collaboration Symposium on Information, Production and Systems (ISIPS), unpublished. 2014.

WORK EXPERIENCE

MAY 2014-AUG 2015	<p>Indian Institute of Technology Delhi, India <i>Senior Research Fellow</i></p> <p>Worked on the force control of Kuka robot to perform the task of inserting a peg in a hole. Besides, I also worked on the development of RoboAnalyzer software which helps in teaching and learning of robot kinematics and dynamics in an easier and funnier way.</p>
FEB-MAY 2014	<p>Indian Institute of Technology Delhi, India <i>Project Staff</i></p> <p>Involved in a collaborative project "SAKSHAR: An Image-projective Desktop Varnamala Trainer (IDVT) for interactive learning of alphabets". The project aims to make primary education more attractive and fun towards the kids.</p>
JUN 2012-JAN 2014	<p>Altair Engineering, Bangalore, India <i>Software QA Engineer</i></p> <p>Successfully completed software testing such as performance, load and functional testing including licensing of Altair Web Portal Framework and Compute Manager, a web-based interface for PBS workload manager.</p>

EDUCATION

<i>Current</i>	<p>Doctor of Philosophy, LSSE Kyutech, Kitakyushu, Japan Major: Machine Learning in Robotics</p>
SEP 2017	<p>Master of Engineering, LSSE Kyutech, Kitakyushu, Japan Major: Machine Learning in Robotics Project: Clothing Assistance using DMP Advisor: Prof. Tom Shibata</p>
AUG 2012	<p>Bachelor of Technology, IITDM Jabalpur, Madhya Pradesh, India Major: Computer Science & Engineering Project: Data Structure Simulator Advisor: Dr. Atul Gupta</p>
JUN 2007	<p>Intermediate Examination, HGSSVMIC Haldwani, Uttarakhand, India Major: Maths, Physics and Chemistry</p>
JUN 2005	<p>High School Examination, HGSSVMIC Haldwani, Uttarakhand, India</p>

SCHOLARSHIPS AND CERTIFICATES

- NOV 2017 First prize in HEBI Robotics Hackathon
(HEBI Robotics Hackathon held in Kyushu Institute of Technology, Japan)
- NOV 2016 Certificate of Excellent Paper Award
(International collaboration Symposium on IPS by Waseda University, Japan)
- OCT 2015 Japanese Government (Monbukagakusho: MEXT) Scholarship
(Ministry of Education, Culture, Sports, Science and Technology of Japan)
- MAY 2015 Certificate of successfully completing Mechanics of Robots
(Classroom course by Prof. S. K. Saha, IIT Delhi, India)
- MAR 2015 Statement of Accomplishment of Image Processing
(MOOC by Prof. G. Sapiro, Duke University, USA)
- DEC 2012 Statement of Accomplishment of Computer Networks
(MOOC by Prof. N. McKeown, Stanford University, USA)

LANGUAGES

HINDI: Mother-tongue
ENGLISH: Fluent

TECHNICAL SKILLS

Programming Languages: C/C++, Python, C#, KUKA Robot Language, Embedded C, Java
IDE: Microsoft Visual Studio, Eclipse, WinAVR
Tools: \LaTeX , ROS, PCL, OpenCV, MATLAB
Web. Development: Drupal, HTML, PHP, JS, JSF
Platform: WINDOWS (XP, 8 and 10), LINUX (Ubuntu)