Iseigaoka 6-1, Yahatanishi, Kitakyushu, Fukuoka, 807-0804, Japan 🛮 (+81) 80-1530-4360 | 💌 joshi.ravi-prakash869@mail.kyutech.jp | 🏕 www.ravijoshi.xyz | 🖸 ravijo | 🛅 ravi2008joshi | 📓 Ravi P. Joshi | 💿 ORCiD **Publications** JOURNAL ARTICLES [3] A Framework for Robotic Clothing Assistance by Imitation Learning Ravi Prakash Joshi, Nishanth Koganti, Tomohiro Shibata Advanced Robotics 0.0 (2019) pp. 1–19. Taylor & Francis DOI: 10.1080/01691864.2019.1636715 2019 Calibration and statistical techniques for building an interactive screen for learning of alphabets by children Riby Abraham Boby, Ravi Prakash Joshi, Subir Kumar Saha, Takafumi Matsumaru, Pratyusha Sharma, Siddhartha Jaitly International Journal of Advanced Robotic Systems 14.3 (2017) p. 1729881417703939. SAGE Publications London, UK DOI: 10.1177/1729881417703939 2017 Robot kinematics made easy using RoboAnalyzer software Ratan S. Othayoth, Rajeevlochana G. Chittawadigi, Ravi P. Joshi, Subir K. Saha Computer Applications in Engineering Education 25.5 (2017) pp. 669–680. Wiley Online Library DOI: 10.1002/cae.21828 2017 Conference Proceedings [11] Mouse Anatomical Cardinal Planes and Axes Towards Augmentation for Behavior Analysis Salvador Blanco Negrete, Ravi Prakash Joshi, Rollyn Labuguen, Jumpei Matsumoto, Tomohiro Shibata Joint 7th International Conference on Informatics, Electronics Vision (ICIEV) and 2nd International Conference on Kitakvushu, Japan Imaging, Vision Pattern Recognition (icIVPR) DOI: 10.1109/ICIEV.2018.8641000 Robotic cloth manipulation for Clothing Assistance task using Dynamic Movement Primitives Ravi Prakash Joshi, Nishanth Koganti, Tomohiro Shibata Proceedings of the Conference on Advances in Robotics New Delhi, India DOI: 10.1145/3132446.3134878 2017 Estimating 3D Hand Location for Clothing Assistance Initialization Using Dynamic Movement Primitives Ravi Prakash Joshi, Rithul Perathara, Rolyn Labuguen, Nishanth Koganti, Tomohiro Shibata Proceedings of the 35th Annual Conference of Robotics Society of Japan Kawagoe, Japan URL: http://rsj2017.rsj-web.org/RSJ2017\_pg02.pdf 2017 A Study on Human-Robot Collaboration for Table-setting Task Krati Saxena, Rollyn Labuguen, Ravi Prakash Joshi, Nishanth Koganti, Shibata Tomohiro IEEE International Conference on Robotics and Biomimetics (ROBIO) Macau, China DOI: 10.1109/ROBIO.2017.8324415

Cloth Extremity Detection from a Clutter of Clothes using Bayesian GP-LVM

Vishal Gaurav, Nishanth Koganti, Riku Nakata, Ravi Prakash Joshi, Tom Shibata

International session on Robotics, Mechatronics and Control, Robotics Society of Japan

URL: http://rsj2016.rsj-web.org/data/RSJ2016\_pg.pdf

Virtual Experiments for Integrated Teaching and Learning of Robot Mechanics Using RoboAnalyzer

Ratan Sadanand, Ravi P. Joshi, Rajeevlochana G. Chittawadigi, Subir Kumar Saha

28th International Conference on CAD/CAM, Robotics and Factories of the Future ISBN: 978-81-322-2740-3

Force Control of Robot Manipulator using Industrial Servo Drives

Arun Dayal Udai, Subir Kumar Saha, Ravi Prakash Joshi, Rattan Sadanand

International Conference on Evolution in Manufacturing (ICEM) ISBN: 978-93-86256-11-9

SAKSHAR: An Image-projective Desktop Varnamala Trainer (IDVT) for Interactive Learning of Alphabets

Ravi Prakash Joshi, Riby Abraham Boby, Subir Kumar Saha, Takafumi Matsumaru

Developing Countries Forum, Robotics and Automation (ICRA), IEEE International Conference on  $\verb|URL:| http://icra2015.org/conference/forums/11-conference/37-developing-countries-forum/stable and the stable of the stable$ 

Virtual Robots Module: An Effective Visualization Tool for Robotics Toolbox

Ratan Sadanand, Rajeevlochana G. Chittawadigi, Ravi P. Joshi, Subir Kumar Saha

Proceedings of the Conference on Advances In Robotics DOI: 10.1145/2783449.2783475

Projectable Interactive Surface Using Microsoft Kinect V2: Recovering Information from Coarse Data to Detect Touch Pratyusha Sharma, Ravi Prakash Joshi, Riby Abraham Boby, Subir Kumar Saha, Takafumi Matsumaru

IEEE/SICE International Symposium on System Integration (SII)

DOI: 10.1109/SII.2015.7405081

Depth-based Localization for Robotic Peg-in-Tube Assembly

Arun Dayal Udai, Ravi Prakash Joshi, Subir Kumar Saha

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)

DOI: 10.1109/IROS.2015.7353871

Kojirakawa, Japan

2016

Kolaghat, India

2016

Ranchi, India 2016

Washington, USA

2015

Goa, India

Nagoya, Japan

Hamburg, Germany

2015

## PRESENTED (UNPUBLISHED) [2]

Extremity Detection from a Pile of Garments using Bayesian GPLVM

Vishal Gaurav, Nishanth Koganti, Riku Nakata, Ravi Prakash Joshi, Tom Shibata

Workshop on Assistive and Service Robotics in a Human Environment, Intelligent Robots and Systems (IROS), IEEE/RSJ International Conference on

URL: https://research02.jimu.kyutech.ac.jp/html/100000703\_knkyu\_prsn\_en.html

Daejeon, Korea

2016

SAKSHAR: An Image-projective Desktop Varnamala Trainer (IDVT) for Interactive Learning of Alphabets

Ravi Prakash Joshi, Riby Abraham Boby, Subir Kumar Saha, Takafumi Matsumaru

 $8 th \, International \, collaboration \, Symposium \, on \, Information, \, Production \, and \, Systems \, (ISIPS)$ 

URL: http://www.waseda.jp/assoc-ics/2014/program.html

Kitakyushu, Japan

2014

## **Experience**.

#### **Indian Institute of Technology Delhi**

New Delhi, India

SENIOR RESEARCH FELLOW

May 2014 - Aug. 2015

- Worked on the force control of a KUKA robot to perform the task of inserting a peg in a hole.
- · Development of RoboAnalyzer software which helps in teaching and learning of robot kinematics and dynamics in an easier and funnier way.

#### **Indian Institute of Technology Delhi**

New Delhi, India

PROJECT STAFF

Feb. 2014 - May 2014

Jun. 2012 - Jan. 2014

- 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.

Altair Engineering Bangalore, India

Software QA Engineer

- Successfully performed software testing such as performance, load, and functional testing of Altair Web Portal Framework and Compute Manager, a web-based interface for PBS workload manager.
- Developed a framework for automated testing of REST Services.
- · Key person for guaranteeing essential functionality such as licensing of Altair Web Portal Framework.

## **Education**

#### Kyutech (Kyushu Institute of Technology) Wakamatsu

Kitakyushu, Japan

DOCTOR OF PHILOSOPHY IN MACHINE LEARNING IN ROBOTICS

Present

• Major Project: Robotic Clothing Assistance

## Kyutech (Kyushu Institute of Technology) Wakamatsu

Kitakyushu, Japan

MASTER OF ENGINEERING IN MACHINE LEARNING IN ROBOTICS

Sep. 2017

IIITDM (Indian Institute of Information Technology Design & Manufacturing) Jabalpur

• MAJOR PROJECT: Clothing Assistance using DMP

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Madhya Pradesh, India

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING

Aug. 2012

Jun 2007

Major Project: Data Structure Simulator

## HGSSVMIC (Hargovind Suyal Saraswati Vidya Mandir Inter College) Haldwani

Uttarakhand, India

INTERMEDIATE EXAMINATION

• MAJOR SUBJECTS: Maths, Physics and Chemistry

#### HGSSVMIC (Hargovind Suyal Saraswati Vidya Mandir Inter College) Haldwani

Uttarakhand, India

HIGH SCHOOL EXAMINATION

Jun. 2005

# **Technical Skills**

**Commercial Robot Used** Rethink Robotics© Baxter, Toyota© HSR, KUKA Robotics© KR 5

**Programming** C/C++, Python, C#, Embedded C, Java, KUKA Robot Language

IDE Microsoft Visual Studio, Eclipse, NetBeans, WinAVR

Tools/Libraries Letex, ROS, ØMQ, PCL, OpenCV, Protocol Buffers, MATLAB

Web Drupal, HTML, PHP, JS, JSF

**OS Platform** Windows (XP, 8 and 10), Linux (Ubuntu)

# **Personal Information**

**Date of Birth** August 5, 1990

**Languages** Hindi, English, Japanese (Beginner)

## Honors & Awards

2017	First prize, HEBI Robotics Hackathon at Kyutech	Japan
2016	Excellent Paper Award, 10th International collaboration Symposium on IPS at Waseda University	Japan
2015	MEXT Scholarship, Ministry of Education, Culture, Sports, Science and Technology of Japan	Japan
2015	Successfully completing Mechanics of Robots, Classroom course by Prof. S. K. Saha, IIT Delhi	India
2015	MOOC on Image Processing, Prof. G. Sapiro, Duke University, USA	India
2012	MOOC on Computer Networks, Prof. N. McKeown, Stanford University, USA	India