Vikram Rao

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Interest areas: Computer Vision, Deep Learning, Robotics, Object Localization and Information system

EDUCATION

- **National Institute of Technology**   Rourkela, India
  B. Tech with Honors, **Computer Science and Engineering** *GPA: 8.28/10.0*   *July. 2010 – May. 2014*

  Thesis Advisor: **Prof. Banshidar Majhi, Senior Professor (HAG), NIT Rourkela**
  [1]: **Deans Fellowship Recipient**
  [2]: **Top 10 in our Batch, Graduated with Honors.**
  [3]: **Top 0.5% in AIEEE 2010** *(All India Engineering Entrance Exam)*
  [4]: **Top 0.75% in IIT**-**JEE 2010** *(Indian Institute of Technology - Joint Entrance Exam)*

PATENTS & PUBLICATIONS

[Patent]: **Rao, Vikram.** *Web based fingerprint authentication system & method thereof.* India **Patent: 449/CHE/2014**
[Conference]: **Rao, Vikram.** and Singh, Munesh. *Low-Cost Computer Vision Based Real-Time 3D Localization of Object for Robotic Applications.* IEEE INDICON 2018 (Top IEEE flagship Conference) (ACCEPTED & Presented) $\sim 22\%$ *Accept rate*
[Conference]: **Rao, Vikram.** and Singh, Munesh. *Low-Cost Computer Vision Based Real-Time 3D Localization of Object using Deep Learning for Robotic Applications.* CVPR 2019 (Top IEEE Conference in Computer Vision) Under-review
[Journal]: Singh, Munesh and **Rao, Vikram.** et al. *IoT based Mobile Environment monitoring system* Under-review
[Transaction]: Singh, Munesh and **Rao, Vikram.** et al. *Device-Free localization for object detection and tracking.* IEEE Transactions on Industrial Electronics. Under-review
[Thesis]: **Rao, Vikram.** and Prof. B. Majhi. *Fingerprint Authentication System.* Official Thesis Repository of NIT Rourkela.

RESEARCH EXPERIENCE

- **Indian Institute of Information Technology(IIIT)**   Chennai,India
  Research Assistant   *June 2018 - Present*
    - **Dean's Fellow**: I have been recipient of Prestigious Dean's Fellowship for Research
    - **Research**: In the area of Deep Learning, Computer Vision & IoT. Recently, one paper got accepted in Top IEEE Conference and several works under-review. **(Link)**

- **IIIT Chennai**   Chennai,India
  Senior Project Engineer, Teaching Learning Center   *Nov 2017 - May 2018*
    - **Developed Stereo Vision technology**: Low-cost and robust stereo vision technology for Industrial Robotics
    - **Virtual Reality based Mobile Robots Competition**: Gamification of three schools located $5 - 350$ miles apart, 100 kids participated.**(Link)**

- **IEEE ICESIP International Conference 2019**   Chennai,India
  Organizing Committee and Webmaster. Our Website was approved by IEEE section and HQ. **(Link)**   *Sept. 2018 - Present*

- **IEEE OES Singapore AUV Challenge 2018**   Rourkela,India
  Sponsorer of Team Tiburon which won 2nd place at global level. **(Link)**   *Dec 2017 - Feb 2018*

EXPERIENCE

- **IIIT Chennai**   Chennai,India
  Automation Engineer, Directorate, Administration Department   *May 2018 - Present*
    - **Key official & builder of Institute academic software** : Worked closely with Deans, Director, faculties on this project, which is life-line for the Institute's Administration serving 2000 students, 100 faculties & Administration. **(Link)**

- **Merferry Technologies**   Hyderabad,India
  Founder and CEO of a Start-Up   *Sept 2014 - Present*
    - **Entrepreneur**: 4 years experience from establishment to execution. One Patent developed and commercialized.**(Link)**

PROGRAMMING

Python, Tensorflow, Keras, PyTorch, NumPy, Anaconda, Javascript/CSS/HTML, Java, C#, Dot NET/SQL, PHP/MySQL, LATEX, MATLAB, Visual Studio