

Vivekraj V K

Assistant Professor,
Department of CSE
Indian Institute of Information Technology Dharwad
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EDUCATION

- Ph.D, Computer Vision 2015-21
Indian Institute of Technology Roorkee
Thesis: Autonomous Video Skimming: Taxonomy, Frameworks and
Quantitative Evaluation
Supervisors: Prof. R Balasubramanian and Prof. Debashis Sen
- M.Tech, Computer Engineering 2010-12
Sri Jayachamarajendra College of Engineering, Mysore
Dissertation: Enabling Firmware for a Sensor Hub
- B.E, Computer Science and Engineering 2003-07
J.S.S Academy of Technical Education, Bangalore
Disseration: Development of Interface Software for ACCESS- Embed-
ded Printer Solution

EXPERIENCE

- **MULTI-SENSOR INTEGRATED ROBOTIC SYSTEM FOR HAZARDOUS JOBS IN MANUFACTURING INDUSTRY | IIT KHARAGPUR**
Designation: Research Engineer Jan. 2020 to Jan. 2022
 - The project envisions developing a computer vision based control of an industrial robot used in the steel manufacturing industry for periodically collecting molten steel samples from the furnace. A machine vision based system is designed for real-time collision detection and tracking while the robot performs the designated task.

- **NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA (NITK), SURATHKAL**
Designation: Lecturer Jul. 2012 to Dec. 2014
 - *Responsibilities:* Involved in knowledge dissemination among future engineers.
- **COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT. LTD**
Designation: Programmer Analyst Sep. 2007 to Aug. 2010
Domain: Life Science
 - *Responsibilities:* Involved in the development of new services and unit testing. Pro-active monitoring of services for any discrepancies. Deployment of services in the production environment. Enhancement of existing services as per the customer requirements.

PUBLICATIONS

1. Vivekraj V. K., Debashis Sen, and Balasubramanian Raman. 2020. Vector Ordering and Regression Learning Based Ranking for Dynamic Summarization of User Videos. *IET Image Processing* 14, no. 15 (2020): 3941-3956. DOI: 10.1049/iet-ipr.2020.0234 [Q2 Journal, impact factor 2.004 (2020)]
2. Vivekraj V. K., Debashis Sen, and Balasubramanian Raman. 2019. Video Skimming: Taxonomy and Comprehensive Survey. *ACM Computing Surveys* 52, 5, Article 106 (September 2019), 38 pages. DOI: 10.1145/3347712 [Q1 Journal, impact factor 7.990 (2019)]
3. Vivekraj V. K., Debashis Sen, and Balasubramanian Raman. "Vector ordering based multimodal video skimming for user videos." In *IEEE Region 10 Conference, TENCON 2017, IEEE, 2017*, pp. 775-780. DOI: 10.1109/TENCON.2017.8227964
4. Vivekraj V. K., Balasubramanian Raman, and Debashis Sen, "Vector re-ordering based selection of segments for video skimming," in *23rd International Conference on Pattern Recognition (ICPR)*. IEEE, 2016, pp. 871-876. DOI: 10.1109/ICPR.2016.7899745

ACHIEVEMENTS AND AWARDS

- Organized a hands-on session demonstrating a typical video summarization system in Workshop on CVIP organized by EICT Academy, IIT Roorkee, Dec. 14 - 24, 2020.

- Microsoft research grant and IITR Alumni Fund for presenting research work in international conferences.
- MHRD scholarship for pursuing Ph.D.
- Qualified UGC-NET for Junior Research Fellowship in Dec. 2013 with score of 244/350.
- MHRD scholarship for pursuing M.Tech.
- Qualified GATE 2010 with a score of 501.
- Qualified Sun Certified Web Component Developer 1.4 in 2009.
- Qualified Sun Certified Java Programmer 1.4 in 2008.

REFERENCES

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Debashis Sen
Assistant Professor
Department of EECE,
IIT Kharagpur 721302
dsen@ece.iitkgp.ac.in

Sudip Roy
Assistant Professor
Department of CSE,
IIT Roorkee 247667
sudiproym.fcs@iitr.ac.in

DECLARATION

All the information provided above are true to the best of my knowledge.

Place : Dharwad

Date : 01-February-2022

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