Office: B332, Brain Anderson Building 115.
ANU, ACT 2601 Canberra, Australia.
Email: suryansh.kumar@anu.edu.au
Web : https://suryanshkumar.github.io

Suryansh Kumar

EDUCATION

- The Australian National University, Canberra.
  Research Area: Computer Vision.
  Advisors: Yuchao Dai, Hongdong Li, Richard Hartley.
  PhD in Engineering and Computer Science.
  Sept 2015- Present.

- IIIT-Hyderabad, India.
  Research Area: Robot Vision.
  Advisor: K Madhava Krishna.
  M.S in Computer Science and Engineering.
  Aug. 2013 (Thesis Defended).

RESEARCH INTERESTS

- Computer Vision: Structure from Motion, Motion Segmentation.
- Robot Vision: Visual SLAM, Mobile Object Tracking & Segmentation.
- Applied Mathematics: Machine Learning, Convex and Non-Convex Optimization, Abstract Algebra.

MAJOR PUBLICATIONS

[1]. Monocular Dense 3D Reconstruction of a Complex Dynamic Scene from Two Perspective Images. **ICCV, 2017.**
   Authors: Suryansh Kumar, Yuchao Dai, Hongdong Li. Venice, Italy.

[2]. Spatio-Temporal Union of Subspaces for Multi-body Non-rigid Structure-from-Motion. **Pattern Recognition 2017.**
   Authors: Suryansh Kumar, Yuchao Dai, Hongdong Li. Impact Factor: 4.582.

[3]. Multibody Non-rigid Structure from Motion. **3DV 2016.**
   Authors: Suryansh Kumar, Yuchao Dai, Hongdong Li. Stanford University, USA.

[4]. Markov Random Field based Small Obstacle discovery over Images. **ICRA 2014.**
   Authors: Suryansh Kumar, Siva Karthik M, K Madhava Krishna. Hong Kong, China.

PROFESSIONAL EXPERIENCE

- Reviewer: 3DV 2017.
- TA for Individual Engineering Project Course (ENGN4200) Semester: Summer 2017(ANU).
  Course Instructor: Yuchao Dai.
- TA for Computer Vision Course (ENGN4528/6528) Semester: Summer 2017(ANU).
  Course Instructor: Jonghyuk Kim.
- Consultant Engineer, Uurmi Systems Pvt. Limited, Hyderabad. July 2014 – June 2015.
  Project Advisor: B.S Venkatesh.

RESEARCH EXPERIENCE

- INRIA-Rhône-Alpes Grenoble, France. Research Intern, Sept 2013-Feb 2014.
  Supervisors: Dizan Vasquez, Christian Laugier.
- IIIT-Hyderabad, India. Research Assistant, July 2011- Aug. 2013.
  Supervisor: K. Madhava Krishna.
- IIT-Hyderabad, India. Project Associate, July 2010-Dec. 2010.
  Supervisor: P. Rajalakshmi.

AWARDS & ACHIEVEMENTS

- Finalist of CVPR NRSFM challenge 2017 sponsored by Disney Research. Invited for presentation.
- Student funding to attend ICML 17, Sydney Australia and ICCV 17, Venice Italy.
- Student funding to attend Robot Vision Summer School 2016, Kiola, Australia.
- Recipient of "Australian National University Higher Degree Research" Merit Scholarship Award.
- Recipient of "Best Innovative Group 2014", by Uurmi Systems Private Limited, India.
- Full-Time Funded Student by "Campus France", for research internship at INRIA, Grenoble-France.
- Full-Time Scholarship Student for MS program in IIIT-Hyderabad, India.
- Winner of "8085 Programming" and "Project Demonstration" contest organized at TITIKSHA 2008, SMVDU, J&K India.