

SURYANSH KUMAR

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EDUCATION

- The Australian National University, Canberra.** PhD in Engineering and Computer Science, Sept 2015- Present.
Supervisors: [Dr. Yuchao Dai](#), [Prof. Richard Hartley](#).
Chair of Panel: [Prof. Hongdong Li](#).
- IIIT-Hyderabad, India.** M.S in Computer Science and Engineering, Aug. 2013.
Advisor: [Prof. K Madhava Krishna](#).

RESEARCH INTERESTS

- Computer Vision:** Structure from Motion, Motion Segmentation.
- Robot Vision:** Visual SLAM, Mobile Object Tracking & Segmentation.
- Applied Mathematics:** Convex and Non-Convex Optimization, Algorithms, Algebra, Geometry, Compressed Sensing.

MAJOR PUBLICATIONS

- [Spatio-Temporal Union of Subspaces for Multi-body Non-rigid Structure-from-Motion.](#) **Pattern Recognition Journal.**
Authors: **Suryansh Kumar**, Yuchao Dai, Hongdong Li. **2017**, Impact Factor: 3.399
- [Multibody Non-rigid Structure from Motion.](#) **3DV 2016**, Stanford University, USA.
Authors: **Suryansh Kumar**, Yuchao Dai, Hongdong Li.
- [Markov Random Field based Small Obstacle discovery over Images.](#) **ICRA 2014**, Hong Kong, China.
Authors: **Suryansh Kumar**, Siva Karthik M, K. Madhava Krishna.

PROFESSIONAL EXPERIENCE

- Teaching Assistant for Individual Engineering Project Course (ENGN4200) Semester: Summer 2017(ANU).
Course Instructor: [Dr. Yuchao Dai](#).
- Teaching Assistant for Computer Vision Course (ENGN4528/6528) Semester: Summer 2017(ANU).
Course Instructor: [Dr. Jonghyuk Kim](#).
- Uurmi Systems Pvt. Limited, Hyderabad. Image Understanding Group, Consultant Engineer, July'14 – June'15.
Project Advisor: [Dr. B.S Venkatesh](#).

RESEARCH EXPERIENCE

- INRIA-Rhône-Alpes Grenoble, France.** Research Intern, Sept 2013-Feb 2014.
Supervisors: [Dr. Dizan Vasquez](#), [Prof. Christian Laugier](#).
- IIIT-Hyderabad, India.** Research Assistant, July 2011- August 2013.
Supervisor: [Prof. K. Madhava Krishna](#).
- IIT-Hyderabad, India.** Project Associate, July 2010-Dec. 2010.
Supervisor: [Dr. P. Rajalakshmi](#).

AWARDS & ACHIEVEMENTS

- 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.

Detailed CV and References available on request.