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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

- Monocular Dense 3D Reconstruction of a Complex Dynamic Scene from Two Perspective Images.** **ICCV, 2017.**
Authors: [Suryansh Kumar](#), [Yuchao Dai](#), [Hongdong Li](#).
Venice, Italy.
- 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.
- Multibody Non-rigid Structure from Motion.** **3DV 2016.**
Authors: [Suryansh Kumar](#), [Yuchao Dai](#), [Hongdong Li](#).
Stanford University, USA.
- 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.
- 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.