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November 30, 2007

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Email: vashok@umiacs.umd.edu

Hiring Committee  
Department of Electrical and Computer Engineering,  
University of California, San Diego, CA-92093

Dear Sir/Madam,

I wish to apply for the position of Assistant Professor in the Department of Electrical and Computer Engineering at the University of California, San Diego. I am a doctoral candidate in the Department of Electrical and Computer Engineering at University of Maryland, College Park. My Ph.D. advisor is Prof. Rama Chellappa. My research interests are in Computer Vision, Pattern Recognition, Signal/Image Processing, Computational and Fourier Photography, Graphics and related areas. I expect to graduate in Spring 2008.

During my PhD I have worked on a diverse set of problems. I have proposed and evaluated shape representations and dynamical models that are tuned for activity recognition from video and gait based person identification. I have also developed a simultaneous tracking and behavior analysis framework in which both the position and the behavior are simultaneously estimated using particle filtering. In collaboration with another graduate student I have also developed a method for activity based view-invariant clustering of video sequences. During my 6 month long internship with Mitsubishi Electric Research Labs ( MERL ), I designed a light-field camera without any additional optical elements such as micro-lens array. In the paper we published regarding the design we also laid the theoretical foundations for light-field modulation using non-refractive modulators. Apart from these, I have also briefly worked on other projects including structure from motion with inertial side information, multi-video coding and face tracking and recognition.

My research work has appeared in major journals and conferences such as IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), IEEE International Conference on Computer Vision (ICCV), ACM SIGGRAPH, ACM Transactions on Graphics (TOG) and in several other prestigious conferences, workshops and as book chapters.

Enclosed is my curriculum vitae including a list of publications. The list of references is appended at the bottom of this letter. Details of my research work, publication list along with papers are available at <http://www.cfar.umd.edu/users/vashok>

Please let me know if you need any other information that will assist you in processing my application. I thank you for your consideration and look forward to hearing from you soon.

**List of References**

**Prof. Rama Chellappa,**  
Professor,  
Department of Electrical and Computer Engineering,  
University of Maryland,  
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**Prof. Amit K. Roy-Chowdhury,**

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Sincerely,

Ashok Veeraraghavan