Yi-Chun Lee "Segmented near infrared light image superimposition on visible light endoscopic video for gall bladder surgery" (June 2016) Computer Assisted Radiology and Surgery, Heidelberg, Germany

- Kumar Atul, Shih-Wei Huang, Wang Yen Yu, Liu Kai-Che, Wu, Huang Ching-Chun, Lee Yi-Chun, Ou Jing-Jim, Hung Wan-Chi "3D structure reconstruction of lesions in colon with colonoscopic images" (March 2016) Society of American Gastrointestinal and Endoscopic Surgeons, Boston, USA

- Wang Yenyu, Yeh Tien-Shou, Kumar Atul, Hung Wan Chi, Su Wei-Chia, Liu Kai-Che, Wu, Hurng-Sheng "3D endoscope system of monoscopic endoscope with external stereo lens" (March 2016) Society of American Gastrointestinal and Endoscopic Surgeons, Boston, USA

- Atul Kumar, Yen-Yu Wang, Kai-Che Liu, Wan-Chi Hung, Shih-Wei Huang, Wen-Nung Lie, Ching-Chun Huang, "Surface reconstruction from endoscopic image sequence" (July 2015) IEEE International Conference on Consumer Electronics, Taipei, Taiwan.

- Atul Kumar, Yen-Yu Wang, Kai-Che Liu, Wan-Chi Hung, Shih-Wei Huang, Wen-Nung Lie, Ching-Chun Huang. "Three dimensional panorama visualization for endoscopic video: A shape from shading approach." (May 2015) World Congress on Bioengineering, Singapore

- Atul Kumar, Yen-Yu Wang, Kai-Che Liu, Wan-Chi Hung, Shih-Wei Huang, Wen-Nung Lie, Ching-Chun Huang. "Stereoscopic Augmented Reality for Single Camera Endoscope Using Optical Tracker: A Study on Phantom" (September 2015) Third International Conference on Robot, Vision and Signal Processing, Kaoshiung, Taiwan

- **Atul Kumar**, Kai-Che Liu, Ching-Chun Huang, Ming Hsun LeeLihsun , Chen, Yen-Yu Wang, Hurng-Sheng Wu. Hepatocellular carcinoma detection in arterial phase of CT using directional features and machine learning algorithm. (**2014, November**) at Radiological Society of North America, Chicago, USA

- **Atul Kumar**, Ching-Chun Huang, Nguyen Hung,Yen-Yu Wang, Ching-Jen Wu, Kai-Che Liu, I-Chen Tsai. Distinguishing normal and pulmonary edema chest x-ray using Gabor filter and SVM-A preliminary report. (**2014, April**) at 2014 IEEE International Symposium on Bioelectronics and Bioinformatic; Taiwan.

- **Atul Kumar**, Ching-Jen Wu, Kai-Che Liu, Yen-Yu Wang, Hurng-Sheng Wu. Stereoscopic Laparoscopy Using Depth Information from 3D Model. (**2014, April**) at 2014 IEEE International Symposium on Bioelectronics and Bioinformatics; Taiwan.

- **Atul Kumar**, Ching-Jen Wu, Yen-Yu Wang, Kai-Che Liu and Hurng-Sheng Wu. Dynamic field view expansion of the laparoscope video using robot arm. (**2013,September**) at Asian Conference on Computer Aided Surgery 2013; Tokyo, Japan.

- **Atul Kumar**, Ching-Jen Wu,Kai-Che Liu, Yen-Yu Wang, Hurng-Sheng Wu. Augmented reality for laparoscopy surgery using registration and image feature tracking. (**2013,September**) at Asian Conference on Computer Aided Surgery 2013; Tokyo, Japan.

- Ching-Chun Huang , Nguyen Manh Hung, and **Atul Kumar**. A Hybrid Method for 3D Instrument Reconstruction and Tracking in Laparoscopy Surgery. (**2013, November**) at International Conference on Control, Automation and Information Sciences 2013 (IEEE Conf. No. 31270); Ho Chi Minh City, Vietnam.

- Kai-Che Liu, **Atul Kumar**, Leona Chen, Yen-Yu Wang, Hurng-Sheng Wu, Min-Ho Huang. 3D Visualization of Laparoscopic Images by Registration to 3D CT/MRI Model. (**2013, December**) at Radiological Society of North America; Annual Meeting 2013, Chicago, USA.