CHUANMIN JIA

Contact postcode 100871 Institute of Digital Media Information National Engineering Laboratory for Video Technology ⊠ cmjia@pku.edu.cn School of Electronics Engineering and Computer Science **Peking University** S2728, No. 5 Yiheyuan Road, Haidian District, Beijing 100871, China http://www.jiachuanmin.site Google Scholar Research • Image and Video Processing/Compression Interests • Light Field Technology • Deep Learning • Computational Imaging **EDUCATION Peking University** Sep. 2011 - Current • Ph.D. in Computer Science • Advisor: Prof. Siwei Ma and Prof. Wen Gao **Beijing University of Posts and Telecommunications** Sep. 2011 – Jul. 2015 • B.Eng in Computer Science and Technology • Overall GPA 86.7/100, rank: 10% • Thesis: Research on Compressed Video Enhancement and GPU Acceleration. (in Chinese) Research **Institute of Digital Media**, Peking University Sep. 2014 – present EXPERIENCE • Research Assistant Institute of Computational Linguistics, Peking University Feb. 2014 – Aug 2014 • Research Intern Innovation Research Center, Beijing Univ. of Posts. & Telecom. Aug. 2013 – Mar. 2014 • Research Intern **JOURNAL** • Siwei Ma, Xinfeng Zhang, Jian Zhang, C. Jia, Shiqi Wang and Wen Gao "Nonlocal In-Loop Publications Filter: The Way Toward Next-Generation Video Coding?," IEEE MultiMedia 23 (2), 16-26. Conference • C. Jia, X. Zhang, J. Zhang, S. Wang and S. Ma, "Deep Convolutional Network based Image **Publications** Quality Enhancement for Low Bit Rate Image Compression," Proc. of IEEE Visual Communications and Image Processing (VCIP), Chengdu, China, Nov. 2016. (Oral) • J. Zhang, C. Jia, N. Zhang, S. Ma, and W. Gao, "Structure-driven Adaptive Non-local Filter for High Efficiency Video Coding (HEVC)," Proc. of IEEE Data Compression Conference (DCC), Snowbird, Utah, USA, Mar. 2016. (Oral) (Top Conference in Data Compression) • J. Zhang, C. Jia, S. Ma, and W. Gao, "Non-Local Structure-Based Filter for Video Coding," *Proc. of IEEE International Symposium on Multimedia (ISM)*, Miami, Florida, USA, Dec. 2015. (Oral) • 1st prize of Video Big Data Compression Contest in the National Graduate Contest on Honors and Awards Smart-City Technology. 2016 • Excellent Graduation Thesis Award, Beijing Univ. of Posts. & Telecom. 2015

• Innovation Scholarship (Collaborative Innovation Center for Future Media Network). 2015

• Honorable Mention Winner in American Mathematical Contest in Modeling.

2014

Professional Service

Reviewer

• Journal of Visual Communication and Image Representation, JVCIR. (since Oct 2016)

Conferences (Oral or Poster) and Invited Talks

 Deep Convolutional Network based Image Quality Enhancement for Low Bit Rate Image Compression, VCIP2016, Chengdu, China, Nov. 2016

Memberships

• Student Member, IEEE

SELECTED PROJECTS

View Synthesis Optimization,

Apr. 2016 - Sep. 2016

• Optimizing an open-source view synthesis software using CUDA. 6X acceleration, real time FHD (1080P) view synthesis with over 40fps.

NFC Tour Guide,

Aug. 2013 - Mar. 2014

• Developed an Android app using NFC for tourism. Mainly responsible for implementing of NFC pay, speech tour guide and database interface design.

Flower Recognition,

Jul. 2013 - Sep. 2013

• Proposed recognition algorithm by combining histogram and contour feature with linear classifier. iOS app development and recognition algorithm implementation.

Skills

- Programming: C/C++, CUDA, MATLAB, Power Shell, HTML, Python, LATEX.
- Operating System: Mac OS X, Ubuntu Linux, Windows
- Libraries/Frameworks: Caffe, OpenCV, Numpy, Tensorflow, HEVC/H.265, AVS2
- Github Repo: https://github.com/codersadis

Last updated: Dec.14 2016