Rang Nguyen

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Education

2012–2016 **PhD in Computer Science**, *National University of Singapore*, Singapore.
GPA 4.71/5
Thesis: Color Mapping for Camera-based Color Calibration and Color Transfer
Supervisor: Assoc. Prof. Michael S. Brown

2005–2010 **B.Eng in Computer Science**, *Ho Chi Minh City University of Technology*, Vietnam.
GPA 8.42/10
Honours degree

Experiences

2016–present **Research Fellow**, *National University of Singapore*, Singapore.
Work under the supervision of Assoc. Prof. Michael S. Brown

2015–2016 **Teaching Assistant**, *National University of Singapore*, Singapore, Part-time.
Modules: Computer Vision and Pattern Recognition (AY2015/16 – Sem1)

2012–2015 **Research Assistant**, *National University of Singapore*, Singapore.
Work for A*STAR PSF'12 grant of "Spectral Imaging for Consumer Cameras" under the supervision of Assoc. Prof. Michael S. Brown

2010–2012 **Teaching Assistant**, *Ho Chi Minh City University of Technology*, Vietnam, Full-time.
Modules: Programming Methodology, Data Structure and Algorithm, and Computer Graphics

Awards

2015–2016 **NUS Graduate Research Scholarship**, *National University of Singapore*, Singapore.

Courses

Computational Photography - National University of Singapore
Computer Vision and Pattern Recognition - National University of Singapore
Computational Geometry and Applications - National University of Singapore
Robot Motion Planning & Control - National University of Singapore
Machine Learning - Coursera (Standford University)
Digital Signal Processing - Coursera (EPFL)
Python Programming - Coursera (University of Michigan)

Fundamentals of Digital Image and Video Processing - Coursera (Northwestern University)

Expertise

Expert in image processing and low level vision, especially in color mapping

Solid background on computer vision and machine learning

Patents

Nguyen, R. M. H and Brown, M. S.: EmbeddedRAW: RAW Image Reconstruction Using A Self-Contained sRGB-JPEG Image With Only 64 KB Overhead, Singapore Patent Application 10201603008X, filed April 2016

Publications

Nguyen, R.M.H., Brown, M.S.: Forget luminance conversion and do something better. In: Computer Vision and Pattern Recognition (CVPR). (2017)

Nguyen, R.M.H., Brown, M.S.: Raw image reconstruction using a self-contained srgb-jpeg image with only 64 kb overhead. In: Computer Vision and Pattern Recognition (CVPR). (2016)

Nguyen, R.M.H., Brown, M.S.: Fast and effective L_0 gradient minimization by region fusion. In: International Conference on Computer Vision (ICCV). (2015) 208–216

Nguyen, R.M.H., Prasad, D.K., Brown, M.S.: Raw-to-raw: Mapping between image sensor color responses. In: Computer Vision and Pattern Recognition (CVPR), IEEE (2014) 3398–3405

Nguyen, R.M.H., Prasad, D.K., Brown, M.S.: Training-based spectral reconstruction from a single RGB image. In: European Conference on Computer Vision (ECCV). Springer (2014) 186–201

Nguyen, R.M.H., Kim, S.J., Brown, M.S.: Illuminant aware gamut-based color transfer. In: Computer Graphics Forum (CGF). Volume 33., Wiley Online Library (2014) 319–328

Prasad, D.K., Nguyen, R.M.H., Brown, M.S.: Quick approximation of camera's spectral response from casual lighting. In: International Conference on Computer Vision Workshops (ICCVW), IEEE (2013) 844–851

Programming skills

Languages	Matlab, Python, C++, C#, Java
Tools	Microsoft Visual Studio, Eclipse

Professional activities

Reviewer for journals and conferences: TIP, CGF, THMS, ICCP, 3DV

Student volunteer for ACCV 2014, Pacific Graphics 2013

Languages

English Fluent
Vietnamese Native

References

Name	Email
Assoc. Prof. Michael S. Brown	brown@comp.nus.edu.sg
Assoc. Prof. Ng Teck Khim	ngtk@comp.nus.edu.sg
Prof. Mohan Kankanhalli	mohan@comp.nus.edu.sg
Dr. Scott Cohen	scohen@adobe.com
Dr. Brian Price	bprice@adobe.com
Dr. Seon-Joo Kim	seonjookim@yonsei.ac.kr