

Curriculum Vitae

Dr. Michael S. Brown

Department of Computer Science, School of Computing
National University of Singapore
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EDUCATION	University of Kentucky PhD in Computer Science Advisor: W. Brent Seales	Lexington, KY, USA 2001
	University of North Carolina at Chapel Hill Visiting PhD Student Advisor: Henry Fuchs	Chapel Hill, NC, USA 1998-2000
	University of Kentucky B.S. in Computer Science	Lexington, KY, USA 1995
RESEARCH INTERESTS	□ Computer vision, image processing, and computer graphics	
EXPERIENCE (ACADEMIC)	□ National University of Singapore Associate Professor Vice Dean (Corporate Relations) Assistant Dean (Corporate Relations) <i>Sung Kah Kay</i> Assistant Professor School of Computing	Singapore 2010-Present 2013-Present 2011-2013 2007-2009
	□ Nanyang Technological University Assistant Professor School of Computer Engineering	Singapore 2005-2007
	□ California State University – Monterey Bay Assistant Professor School of Information Technology and Communications	Monterey, CA, USA 2004-2005
	□ Hong Kong University of Science and Technology Assistant Professor Department of Computer Science	Hong Kong, PRC 2001-2004
(CONSULTANCY)	□ Spacemap Pte Ltd (Singapore)	Aug 2015-current
	□ Singapore Electronics (Singapore)	March 2008-July 2008
	□ Microsoft Research Asia (China)	Jan 2007-Dec 2007
(INDUSTRY)	□ System Analyst, Black Isle Systems	Avoch, Scotland, UK 1995-1996
	□ Unix Programmer, Lexmark International (Analysts International Corporation)	Lexington, KY, USA 1994-1995

HONORS/AWARDS

- Google Research Award, 2015
- Annual Teaching Excellence Award (NUS) [University level], AY09/10
- Faculty Teaching Excellence Award (NUS) [Faculty level], AY08/09, 09/10, 10/11
- Faculty Teaching Excellence Honor Roll (NUS) [Faculty level], AY10/11
(“Honor Roll” members are not eligible to receive faculty teaching awards for 5 years)
- Sung Kah Kay Professorship (2007-2009)
- Young Investigator Award (NUS), 2008
- Outstanding Reviewer, CVPR, 2008 (sponsored by IBM)
- Best Student Paper, ACM/IEEE Joint Conference on Digital Libraries (JCDL), 2008
(Authored with former student Huang Yi - award sponsored by Yahoo)
- College of Engineering’s Teaching Award (HKUST), 2002
- University of Kentucky Graduate Fellowship, 1996-2001
- Ashland Oil Academic Scholarship, 1990-1994

ACTIVITIES

- **Editorial Board/Associate Editor**
 - IEEE Transactions on Pattern Analysis and Machine Intelligence (2011- current)
 - International Journal of Computer Vision (2013 – current)
 - Computer Graphics Form (2013 – current)
- **Guest Editor**
 - International Journal on Computer Vision (IJCV), Special Issue on eHeritage (2011)
 - Innovations Magazine, Dec 2008 (Singapore)
- **Conference/Workshop Organizer**
 - Program Chair, International Conference on 3D Vision (3DV), 2015
 - General Chair, Asian Conference on Computer Vision 2014
 - General Chair, Pacific Graphics 2013
 - General Chair, IEEE Workshop on Applications of Computer Vision (WACV), 2013
 - General Chair, Workshop on Historical Document Processing (HIP), at ICDAR 2011
 - Program Chair, IEEE WACV 2011, 2012, 2017
 - Demo Chair, IEEE CVPR 2014
 - Courses Chair, SIGGRAPH-Asia 2012
 - Co-Chair, IEEE Workshop on eHeritage, at ICCV 2009
 - Co-Chair, ACM/IEEE Workshop on Projector-Camera Systems, at SIGGRAPH’08
- **Area Chair (or equivalent)**
 - IEEE International Conference on Computer Vision (ICCV), 2011, 2013, 2015
 - IEEE Conf. on Computer Vision and Pattern Recognition (CVPR) 2009, 2011, 2013
 - European Conference on Computer Vision (ECCV), 2012
 - Asian Conf. on Computer Vision (ACCV) 2010, 2012
 - Indian Conference on Computer Vision, Graphics, and Image Processing 2010, 2012
 - IEEE Virtual Reality 2011
 - ACM I3D 2013
 - Pacific Graphics 2010, 2011, 2012, 2014
- **Grant/Proposal Reviewer**
 - National Research Foundation (NRF – Singapore), 2013
 - A*STAR Singapore (SERC), 2012
 - Israel Science Foundation (ISF), 2012
 - Austrian Science Fund, 2012, 2013
 - Hong Kong Research Grant Council, 2001, 2011, 2012, 2013, 2014
 - Natural Sciences and Engineering Research Council of Canada (NSERC) , 2011/14
 - Microsoft Research Scholarship Awards, 2011

GRANTS

CURRENT GRANTS

- **(PI)** Google Research Award (Gift Donation)
“Low-Cost Colorimetric Calibration for Mobile Cameras”
2015 – 2016, ~S\$56,000 (USD\$40,000)
- **(PI)** Adobe Research (Gift Donation)
“On White Balancing”
2014 – open, ~S\$54,000 (~USD\$39,000)
- **(PI)** Microsoft Research Asia
“Linearizing the Xbox Kinect for Computer Vision Applications”
2012-2016, ~S\$44,100 (USD\$ 35,000)

COMPLETED GRANTS (NUS)

- **(PI)** FRC’12 (Faculty Research Committee)
“Next Generation Medical Reporting”
2012 -2015, S\$56,500 (~USD\$ 45,406)
- (PI)** Agency for Science, Technology Research (A*STAR) Public Sector Funding
“Spectral Imaging for Consumer Cameras”
2012-2015, S\$652,600 (~USD\$ 519,000)
- **(PI)** FRC’09 (Faculty Research Committee)
“User-assisted Extraction of 3D Scene Properties from Images and Videos”
2010 -2013 , S\$50,000 (~USD\$ 35,206)
- **(PI)** NUS-Young Investigator Award (YIA’08)
“Hyperspectral Imaging of Old and Damaged Manuscripts”
2009 – 2012, S\$500,000 (~USD\$350,000)
- **(PI)** AcRF Tier 1
“Perceptual Fidelity and Seamlessness in Projector-Based Displays”
2008-2010, S\$149,000 (~USD\$104,300)
- **(PI)** Agency for Science, Technology Research (A*STAR) Public Sector Funding
“Imaging and Restoration Techniques for Historical Archives”
2008-2010, S\$426,050 (~USD\$298,200)
- **(PI)** EADS’09 (European Aeronautic Defence and Space Company)
“IR Sensor Distribution Strategies”
2009 , S\$33,384 (~USD\$ 23,368)

National University of Singapore	Evaluations (out of 100)	Personal / Faculty Average
CS3343 – Digital Media Production (Lecture)	(97.60 / 85.00)	Sem II 15
CS3343 – Digital Media Production (Lecture)	(95.60 / 84.80)	Sem II 14
CS3343 – Digital Media Production (Lecture)	(90.80 / 83.20)	Sem II 13
CS5341 – Computational Photography (Lecture)	(95.56 / 90.30)	Sem II 13
CS3343 – Digital Media Production (Lecture)	(95.76 / 82.20)	Sem II 12
CS3343 – Digital Media Production (Lab)	(97.78 / 78.68)	Sem II 12
CS5341 – Computational Photography (Lecture)	(95.38 / 82.20)	Sem II 12
CS3343 – Digital Media Production (Lecture)	(95.00 / 80.12)	Sem III1†*
CS5341 – Computational Photography (Lecture)	(93.30 / 80.12)	Sem III1†*
CS3241 – Computer Graphics (Lecture)	(94.06 / 79.92)	Sem I10†‡
CS3241 – Computer Graphics (Tutorials)	(97.28 / 78.20)	Sem I10†‡
CS3343 – Digital Media Production (Lecture)	(95.53 / 79.92)	Sem I10†‡
CS5341 – Computational Photography (Lecture)	(93.34 / 79.20)	Sem I 09†
CS3343 – Digital Media Production (Lecture)	(95.53 / 79.20)	Sem I 09†
CS5341 – Computational Photography (Lecture)	(92.00 / 78.86)	Sem II 08
CS3241 – Computer Graphics (Tutorials)	(95.90 / 78.86)	Sem II 08

† Faculty Teaching Award

‡ University Teaching Award

* Faculty Teaching Honor Roll (not eligible for faulty teaching awards for the next 5 years)

PATENTS

- T.P. Wu, C.K. Tang, M.S. Brown, H.Y. Shum: “Imparting Three-Dimensional Characteristics in a Two-Dimensional Space”, US Patent Application 2009/0002363, filed July 2007, Granted Oct 2013 (US 8564590 B2)

PUBLICATIONS

BOOK

[B-5] “Practical Multi-Projector Display Design”
Majumder/Brown, AK Peters, USA, 2007

BOOK CHAPTER

[B-4] Chapter 3, “Hybrid-imaging for Motion Deblurring” - Moshe Ben-Ezra, Yu-Wing Tai, Michael S. Brown and Shree Nayar

[B-3] Chapter 5, “Richardson–Lucy Deblurring for Scenes Under a Projective Motion Path” - Yu-Wing Tai and Michael S. Brown
Book: Motion Deblurring, Algorithms and Systems, Cambridge Uni. Press, 2014 (B-4 & B-3)
Editors: A. N. Rajagopalan and Rama Chellappa

[B-2] Chapter 12, “Correction of Spatially Varying Image and Video Motion Blur Using a Hybrid Camera” – Yu-Wing Tai and Michael S. Brown
Book: Image Restoration: Fundamentals and Advances, CRC Press, 2012
Editor: Gunturk, Li

[B-1] Chapter 11, “Digital Libraries” – Michael S. Brown
Book: Multimedia Information Retrieval and Management, Springer, 2002
Editors: Feng, Siu, Zhang

JOURNAL/PERIODICAL

[J-37] Park J., Kim H., Tai Y-W., Brown M. S., Kweon I.S. (2014) “High Quality Depth Map Upsampling and Completion for RGB-D Cameras”, *IEEE Transactions on Image Processing (TIP)*, 23(12), Dec 2014

[J-36] Roy S., Chi Y., Liu J., Venkatesh S., Brown M. S. (2014) “Three-Dimensional Spatio-Temporal Features for Fast Content-based Retrieval of Focal Liver Lesions”, *IEEE Transactions on Biomedical Engineering (TMBE)*, 61(11), Nov 2014

[J-35] Nguyen R., Kim S. J., Brown M. S. (2014) “Illuminant Aware Gamut-Based Color Transfer”, *Computer Graphics Forum (Proc. Pacific Graphics)*, 33(7), Oct 2014

[J-34] Prasad D., Leung M., Quek C., and Brown M.S. (2014) “DEB: Definite error bounded tangent estimator for digital curves”, *IEEE Transactions on Image Processing (TIP)*, 23(10), Oct 2014

[J-33] Zaragoza J., Chin T.-J., Tran Q.-H., Brown M. S., Suter D. (2014) “As-Projective-As-Possible Image Stitching with Moving DLT”, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 36 (7), July 2014

[J-32] Cheng D.L., Prasad D. K., Brown M. S. (2014) “Illuminant Estimation for Color Constancy: why spatial domain methods work and the role of the color distribution”, *Journal of Optical Society of America – A (JOSA)*, 31(5), May 2014

[J-31] Roy S., Brown M. S., Shih G. (2014) “Visual Interpretation with Three-Dimensional Annotations (VITA): Three-Dimensional Image Interpretation Tool for Radiological Reporting”, *Journal of Digital Imaging (JDI)*, 27(1), Feb 2014

- [J-30] Prasad D. K., and Brown, M.S. (2014) "Design of macro-filter-lens with simultaneous chromatic and geometric aberration correction," *Applied Optics* (OSA), 53(1), Jan 2014
- [J-29] Roy S., Brown M. S., Shih G. (2013) "Visual Interpretation with Three-Dimensional Annotations (VITA): Three-Dimensional Image Interpretation Tool for Radiological Reporting", *Journal of Digital Imaging* (JDI), Aug 2013
- [J-28] Tai Y.-W. , Chen X., Kim S., Kim S. J, Li F., Yang J., Yu J., Matsushita Y., Brown M. S. (2013) "Nonlinear Camera Response Functions and Image Deblurring: Theoretical Analysis and Practice", *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**TPAMI**), 35(10), Oct 2013
- [J-27] Lu Z., Tai Y.-W., Deng F., Ben-Ezra M., Brown M.S. (2012) "A 3D Imaging Framework Based on High-Resolution Photometric-Stereo and Low-Resolution Depth", *International Journal of Computer Vision* (**IJCV**), 102(1-3), Mar 2013
- [J-26] Kim S. J., Lin H.T., Lu Z, Susstrunk S, Lin S., Brown M. S. (2012) "A New In-Camera Imaging Model for Color Computer Vision and its Application", *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**T-PAMI**), 34(12), Dec 2012
- [J-25] Gao J. H., Kim S. J., Brown M. S. (2012) "Creating Picture Legends for Group Photos", *Computer Graphics Forum* (Proc. of Eurographics Conference), May, 2012
- [J-24] Lu Z., Luo W., Sun Z., Ben-Ezra M., Brown M.S. (2012) "Imaging Buddhist Art with a Digital Large-Format Camera: A Field Study Report from the Dunhuang Caves," *ACM Journal on Computing and Cultural Heritage* (**JOCCH**), 5(3), Oct 2012
- [J-23] Lin H-T., Tai Y-W., Brown M. S. (2011) "Motion Regularization for Matting Motion Blurred Objects", *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**T-PAMI**), 33(11), Nov 2011
- [J-22] Tai Y-W., Tan P., Brown M. S. (2011) "Richardson-Lucy Deblurring for Scenes under Projective Motion Path", *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**T-PAMI**), 33(8), Aug 2011
- [J-21] Kim S. J., Deng F.B., Brown M. S. (2011) "Visual Enhancement of Old Documents with Hyperspectral Imaging", *Elsevier Pattern Recognition*, Jan 2011
- [J-20] Yeung S.-K., Tang C.-K., Brown M. S., Kang S. B. (2011) "Matting and Compositing of Transparent and Refractive Objects", *ACM Transactions on Graphics* (**ToG**), 30(1), Jan 2011
- [J-19] Kim S. J., Zhou S.J., Deng F.B., Fu C.W., Brown M. S. (2010) "Interactive Visualization of Hyperspectral Images of Historical Documents", *IEEE Transactions on Visualization and Computer Graphics* (**T-VCG**) (Proc. of IEEE Visualization Conference), 16(6), Nov-Dec 2010
- [J-18] Amans M. R., Shih G., Lu Z., Yeh C., Brown M. S. (2010) "Wiimote viewer enhances resident case conferences", *Journal of the American College of Radiology*, 7(10), Oct 2010
- [J-17] Huang Yi., Xu D., Brown M.S. (2010) "User-assisted Ink-Bleed Reduction", *IEEE Transactions on Image Processing* (**T-IP**), 19(10), Oct 2010

- [J-16] Shan Q., Jia J.-Y., Brown M.S. (2010) “Globally Optimized Linear Windowed Tone-Mapping”, *IEEE Transactions on Visualization and Computer Graphics (T-VCG)*, 16(4), July-Aug, 2010.
- [J-15] Tai Y.W., Hao D., Brown M. S., and Lin S. (2010) “Correction of Spatially Varying Image and Video Motion Blur using a Hybrid Camera”, *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*, 32(6), Jun 2010
- [J-14] Zhang L., Yip A. M., Brown M. S., Tan C. L. (2009) “A Unified Framework for Document Restoration using Inpainting and Shape-from-Shading”, *Elsevier Pattern Recognition*, 42(11), Nov 2009
- [J-13] Tai Y.W., Tang H.X., Brown M.S., Lin S. (2009) “Detail Recovery from Single-image Defocus Blur”, *IJSP Transactions on Computer Vision and Applications*, vol 1, Mar 2009 [invited submission]
- [J-12] Tai Y.W., Brown M.S., Tang C.K., Shum H.Y. (2008) “Texture Amendment: Reducing Texture Distortion in Constrained Parameterizations”, *ACM Transactions on Graphics (ToG-SIGGRAPH-Asia’08)*, 27(5), Dec 2008
- [J-11] Wu T.P., Tang C.K., Brown M.S., Shum H.Y. (2007) “Shape-Palette: Interactive Normal Transfer via Sketching”, *ACM Transactions on Graphics (ToG-SIGGRAPH’07)*, 26(3), Aug 2007
- [J-10] Brown M.S., Sun M., Yang R.G., Lin Y., Seales B. (2007) “Restoring 2D Content from Distorted Documents,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*, 29(11), Nov 2007
- [J-9] Wu T.P., Tang C.K., Brown M.S., Shum H.Y. (2007) “Natural Shadow Matting,” *ACM Transactions on Graphics (ToG)*, 26(2), Jun 2007
- [J-8] Brown M.S., Tsoi Y.-C. (2006) “Geometric and Shading Correction of Printed Materials”, *IEEE Transactions on Image Processing (T-IP)*, 15(6), Jun 2006
- [J-7] Brown M. S., Majumder A., Yang R. G. (2005) “Camera-Based Calibration Techniques for Seamless Multi-Projector Displays”, *IEEE Transactions on Visualization and Computer Graphics (T-VCG)*, 11(2), Mar-Apr 2005
- [J-6] Brown M.S., Tsoi Y.-C. (2005) “Distortion removal for camera-imaged print materials using boundary interpolation”, *International Journal of Image and Graphics*, 5(2), Apr 2005
- [J-5] Brown M. S., Seales W. B. (2004) “Image Restoration of Arbitrarily Warped Documents”, *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*, 26(10), Oct 2004
- [J-4] Brown M. S., Seales W. B. (2004) “Incorporating Geometric Registration with PC-Cluster Rendering for Flexible Tiled Displays”, *International Journal of Image and Graphics*, 4(4), Oct 2004 (invited submission)
- [J-3] Brown M. S. Seales W. B., Jaynes C. O. and Griffioen J. (2001) “Building Large Format Displays for Digital Libraries,” *Communications of the ACM Special Issue on Digital Libraries (CACM)*, 44(5), May 2001

[J-2] Brown M. S., Seales W. B., Kiernan K., and Griffioen J. (2001) "3D Acquisition and Restoration of Medieval Manuscripts," *Communications of the ACM Special Issue on Digital Libraries (CACM)*, 44(5), May 2001

[J-1] Welch G., Fuchs H., Raskar R., Brown M. S., and Towles H. (2000) "Projected Imagery In Your Office in the Future," *IEEE Computer Graphics and Applications (CGA)*, 20(4), Jul 2000

CONFERENCE/WORKSHOP

[C-73] Li Y., Tan R., Brown M.S. (2016) "Rain Streak Removal Using Layer Priors", *IEEE Computer Vision and Pattern Recognition (CVPR'16)*, Jun 2016 (to appear)

[C-72] Nguyen R., Brown M. S. (2016) "RAW Image Reconstruction using a Self-Contained sRGB-JPEG Image with only 64 KB Overhead", *IEEE Computer Vision and Pattern Recognition (CVPR'16)*, Jun 2016 (to appear)

[C-71] S. W. Oh, M. S. Brown, M. Pollefeys, S. J. Kim (2016) "Do It Yourself Hyperspectral Imaging with Everyday Digital Cameras", *IEEE Computer Vision and Pattern Recognition (CVPR'16)*, Jun 2016 (to appear)

[C-70] Cheng D. L., Kamel A., Price B., Cohen S., Brown M. S. (2016) "Two Illuminant Estimation and User Correction Preference", *IEEE Computer Vision and Pattern Recognition (CVPR'16)*, Jun 2016 (to appear)

[C-69] Zakizadeh R, Brown M. S., Finlayson , G. (2015) "A Hybrid Strategy For Illuminant Estimation Targeting Hard Images", *5th Color and Photometry in Computer Vision Workshop* (at ICCV'15), Dec 2015

[C-68] Nguyen R., Brown M. S. (2015) "Fast and Effective L₀ Gradient Minimization by Region Fusion", *IEEE International Conference on Computer Vision (ICCV'15)*, Dec 2015

[C-67] Li Y., Tan R., Brown M.S. (2015) "Nighttime Haze Removal with Glow and Multiple Light Colors", *IEEE International Conference on Computer Vision (ICCV'15)*, Dec 2015

[C-66] Cheng D. L., Price B., Cohen S., Brown M. S. (2015) "Beyond White: Ground Truth Colors for Color Constancy Correction", *IEEE International Conference on Computer Vision (ICCV'15)*, Dec 2015

[C-65] Li Y., Min D., Lu J., Brown M. S., Minh N. D. (2015) "SPM-BP: Sped-up PatchMatch Belief Propagation for Continuous MRFs", *IEEE International Conference on Computer Vision (ICCV'15)*, Dec 2015

[C-64] Cheng D. L., Price B., Cohen S., Brown M. S. (2015) "Effective Learning-Based Illuminant Estimation Using Simple Features", *IEEE Computer Vision and Pattern Recognition (CVPR'15)*, Jun 2015

[C-63] Nguyen R., Prasad D., Brown M. S. (2014) "Training-Based Spectral Reconstruction from a Single RGB image", *European Conference on Computer Vision (ECCV'14)*, Sep 2014

[C-62] Li Y., Guo F.F., Tan R., Brown M.S. (2014) "A Contrast Enhancement Framework with JPEG Artifacts Suppression", *European Conference on Computer Vision (ECCV'14)*, Sep 2014

- [C-61] Li Y., Brown M. S. (2014) "Single Image Layer Separation using Relative Smoothness", *IEEE Computer Vision and Pattern Recognition (CVPR'14)*, Jun 2014
- [C-60] Nguyen R., Prasad D., Brown M. S. (2013) "Raw-to-raw: Mapping between image sensor color responses", *IEEE Computer Vision and Pattern Recognition (CVPR'14)*, Jun 2014
- [C-59] Chin T.-J., Bustos A. P., Brown M. S., Suter D. (2014) "Fast rotation search for real-time interactive point cloud registration", *ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D'14)*, Mar 2014
- [C-58] Li Y., Brown M. S. (2013) "Exploiting Reflection Change for Automatic Reflection Removal", *IEEE International Conference on Computer Vision (ICCV'13)*, Dec 2013
- [C-57] Panda J. G., Jawahar C. V., Brown M. S. (2013) "Offline Mobile Instance Retrieval with a Small Memory Footprint", *IEEE International Conference on Computer Vision (ICCV'13)*, Dec 2013
- [C-56] Choi I.C., Kim S.Y., Brown M. S., Tai Y. W. (2013) "A Learning-Based Approach to Reduce JPEG Artifacts in Image Matting", *IEEE International Conference on Computer Vision (ICCV'13)*, Dec 2013
- [C-55] Guo F.F., Li Y., Kankanhalli M., Brown M.S. (2013) "An Evaluation of Wearable Activity Monitoring Devices", *ACM Multimedia - Workshop on Personal Data Meets Distributed*, Oct 2013
- [C-54] Roy S., Liang X., Kitamoto A., Tamura M., Shiroishi T., Brown M. S. (2013) "Phenotype Detection in Morphological Mutant Mice using Deformation Features", *Medical Image Computing and Computer Assisted Intervention (MICCAI'13)*, Sep 2013
- [C-53] Zaragoza J., Chin T.-J., Brown M. S., Suter D. (2013) "Projective-as-Possible Image Stitching with Moving DLT", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR'13)*, June 2013
- [C-52] Gao J. H., Yu L., Chin T.-J., Brown M. S. (2013) "Seam-Driven Image Stitching", *Eurographics 2013 (Short Paper)*, May 2013
- [C-51] Gao J. H., Brown M. S. (2012) "An Interactive Image Editing Tool for Correcting Panoramas", *Siggraph Asia '12 (Technical Brief)*, Dec 2012
- [C-50] Deng F., Kim S. J., Tai Y.W., Brown M. S. (2012) "Color-aware Regularization for Gradient Domain Image Manipulation", *Asian Conference on Computer Vision (ACCV'12)*, Nov 2012
- [C-49] Tran Q.H., Chin T.-J., Carneiro, G., Brown M. S., Suter, D. (2012) "In Defence of RANSAC for Outlier Rejection in Deformable Registration", *European Conference on Computer Vision (ECCV'12)*, Oct 2012
- [C-48] Lin H.T, Lu Z., Kim S. J., Brown, M. S. (2012) "Nonuniform Lattice Regression for Modeling the Camera Imaging Pipeline", *European Conference on Computer Vision (ECCV'12)*, Oct 2012

- [C-47] Kim S.Y., Tai Y.W., Kim S. J., Brown M. S., Matsushita Y. (2012), “Nonlinear Camera Response Functions and Image Deblurring”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR’12)*, June 2012
- [C-46] Wei L., Lu Z., Xu Y.-Q., Wang X.G., Ben-Ezra M., Brown M. S.(2012) “Synthesizing Oil Painting Surface Geometry from a Single Photograph”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR’12)*, June 2012
- [C-45] Lin H.T., Kim S. J., Süssstrunk S, Brown M. S. (2011) “Revisiting Radiometric Calibration for Color Computer Vision”, *IEEE International Conference on Computer Vision (ICCV’11)*, Nov 2011
- [C-44] Park J., Kim H., Tai Y.W., Brown M. S., Kweon I. (2011) “High Quality Depth Map Upsampling for 3D-TOF Cameras”, *IEEE International Conference on Computer Vision (ICCV’11)*, Nov 2011
- [C-43] Gao J.H., Kim S. J., Brown M. S. (2011) “Constructing Image Panoramas using Dual-Homography Warping”, *IEEE Computer Vision and Pattern Recognition (CVPR’11)*, Jun 2011
- [C-42] Liu S.C., Brown M. S., Kim S. J., Tai Y.W. (2010) “Colorization for Single Image Super Resolution”, *European Conference on Computer Vision (ECCV’10)*, Oct 2010
- [C-41] Deng F.B., Wu Z., Lu Z., Brown M.S. (2010) “BinarizationShop: A User-Assisted Software Suite for Converting Old Documents to Black-and-White”, *IEEE/ACM Joint Conference on Digital Libraries (JCDL’10)*, Jun 2010
- [C-40] Tai Y.W., Liu S.C., Brown M. S., Lin S. (2010) “Super Resolution using Edge Prior and Single Image Detail Synthesis”, *IEEE Computer Vision and Pattern Recognition (CVPR’10)*, Jun 2010
- [C-39] Lu Z., Tai Y.W., Ben-Ezra M., Brown M.S. (2010) “A Framework for Ultra High Resolution 3D Imaging”, *IEEE Computer Vision and Pattern Recognition (CVPR’10)*, Jun 2010
- [C-38] Hanasusanto G., Wu Z., Brown M.S. (2010) “Ink-Bleed Reduction using Functional Minimization”, *IEEE Computer Vision and Pattern Recognition (CVPR’10)*, Jun 2010
- [C-37] Lu Z., Wu Z., Brown M.S. (2009) “Interactive Binarization for Degraded Documents”, Workshop on Applications of Computer Vision (**WACV’09**), Dec 2009
- [C-36] Tai Y.W., Brown M.S. (2009) “Single Image Defocus Map Estimation using Local Contrast Prior”, *IEEE International Conference on Image Processing (ICIP’09)*, Nov 2009
- [C-35] Wang J., Brown M. S., Tan C. L. (2009) “Automatic corresponding control points selection for historical document image registration”, *International Conference on Document Analysis and Recognition (ICDAR’09)*, Jul 2009
- [C-34] Lu Z., Wu Z., Brown M.S. (2009) “Directed Assistance for Ink-Bleed Reduction in Old Documents”, *IEEE Computer Vision and Pattern Recognition (CVPR’09)*, Jun 2009
- [C-33] Wang J., Brown M. S., Tan C. L. (2008) “Accurate Alignment of Double-sided Manuscripts for Bleed-through Removal”, *8th IAPR International Workshop on Document Analysis Systems (DAS’08)*, Sep 2008

- [C-32] Tai Y. W., Hao D., Brown M. S., Lin S. (2008) "Image/Video Deblurring using a Hybrid Camera", *IEEE Computer Vision and Pattern Recognition (CVPR'08)*, Jun 2008
- [C-31] Huang Y., Brown M. S., Xu D. (2008) "A Framework for Reducing Ink-Bleed in Old Documents", *IEEE Computer Vision and Pattern Recognition (CVPR'08)*, Jun 2008
- [C-30] Huang Y., Brown M. S. (2008) "User-Assisted Ink-Bleed Correction for Handwritten Documents", *IEEE and ACM Joint Conference on Digital Libraries (JCDL'08)*, Jun 2008
[Best Student Paper Award]
- [C-29] Tong W.S., Tang C. K., Brown M. S., Xu Y.Q. (2007) "Example-Based Cosmetic Transfer", *Pacific Graphics (PG'07)*, Oct 2007
- [C-28] Tai Y. W., Brown M. S., Tang C. K. (2007) "Robust Texture Distortion Flow Estimation via Dense Feature Sampling", *IEEE Computer Vision and Pattern Recognition (CVPR'07)*, Jun 2007
- [C-27] Tsoi Y.C. and Brown M. S. (2007) "Multi-view Document Restoration using Boundary", *IEEE Computer Vision and Pattern Recognition (CVPR'07)*, Jun 2007
- [C-26] Brown M. S., Song P., Cham T.J. (2006) "Image Preconditioning for Out-of-Focus Projector Blur", *IEEE Computer Vision and Pattern Recognition (CVPR'06)*, Jun 2006
- [C-25] Sun M., Yang, R. Y. Lin Y., Landon G., Seales, B., Brown M. S. (2005) "Geometric and Photometric Restoration of Distorted Documents", *IEEE International Conference on Computer Vision (ICCV'05)*, Oct 2005
- [C-24] Brown M. S. and Pisula C. J. (2005) "Conformal Deskewing of Non-planar Documents", *IEEE Computer Vision and Pattern Recognition (CVPR'05)*, Jun 2005
- [C-23] Brown M.S., Tsoi D. (2004) "Geometric and Shading Correction of Imaged Print Materials: A Unified Approach Using Boundary", *IEEE Computer Vision and Pattern Recognition (CVPR'04)*, Jul 2004
- [C-22] Yang R.D., Brown M.S. (2004) "Emulating Short GOPs in MPEG with Fewer I-frames", *IEEE International Conference on Multimedia Expo (ICME'04)*, Jul 2004
- [C-21] Yang R.D., Brown M.S. (2004) "A Scalable Video Error Concealment Technique Using DMVC", *IEEE International Conference on Multimedia Expo (ICME'04)*, Jul 2004
- [C-20] Yang R.D., Brown M.S. (2004) "Music Query using Syntheisa", *IEEE International Conference on Multimedia Expo (ICME'04)*, Jul 2004
- [C-19] Yang R. G., Majumder A., Brown M. S. (2004) "Camera-Based Calibration - Techniques for Seamless Multi-Projector Displays", *Workshop on Computer Vision Applications, Part of European Conference on Computer Vision*, May 2004
- [C-18] Tsoi D., Brown M. S. (2004) "Removal of Dynamic Blemishes from Video," *Asian Conference on Computer Vision (ACCV'04)*, Jan 2004
- [C-17] Brown M. S., Tsoi D. (2004) "Undistorting Imaged Print Materials Using Boundary Information", *Asian Conference on Computer Vision (ACCV'04)*, Jan 2004

- [C-16] Brown M. S., Yang R. D. (2003) "Computer-Assisted Visualization and Analysis of Scholarly Manuscripts," *IS&T Visualization and Data Analysis*, Jan 2004
- [C-15] Brown M. S., Tsoi D. (2003) "Correcting Common Distortions in Camera-Imaged Library Materials," *IEEE and ACM Joint Conference on Digital Libraries (JCDL'03)*, May 2003
- [C-14] Brown M. S., Yang R. D. (2003) "Fast Half-toning of MPEG Video for Bi-Tonal Displays," *IEEE International Conference on Image Processing (ICIP'03)*, Sep 2003
- [C-13] Brown M. S., Wong W. (2003) "Laser Pointer Interaction For Camera-Registered Multi-Projector Displays," *IEEE International Conference on Image Processing (ICIP'03)*, Sep 2003
- [C-12] Brown M. S., Seales W. B. (2002) "A Practical and Flexible Tiled Display System," *Pacific Graphics (PG'02)*, Oct 2002
- [C-11] Yang, R.G., Gotz D., Hensley J., Towles H., Brown M. S. (2001) "PixelFlex: A Reconfigurable, Multi-projector Display System," *IEEE Visualization (VIS'01)*, Oct 2001
- [C-10] Jaynes C. O., Webb S. B., Seales, W. B., Brown M. S., and Steel R. W. (2001) "Dynamic Shadow Removal from Front Projection Display," *IEEE Visualization (VIS'01)*, Oct 2001
- [C-9] Brown M. S., Seales W. B. (2001) "Digital Atheneum: New Approaches for Preserving, Restoring, and Analyzing Damaged Manuscripts," *IEEE and ACM Joint Conference on Digital Libraries (JCDL'01)*, Jun 2001 [Nominated for Best Paper Award]
- [C-8] Brown M. S., Seales W. B. (2001) "Document Restoration using 3D Shape," *IEEE International Conference on Computer Vision (ICCV'01)*, Jul 2001
- [C-7] Brown M. S., Seales W. B. (2001) "3D Imaging of Humanities Texts," *Association of Computing and the Humanities Conference (ACH/ALLC)*, Jun 2001
- [C-6] Brown M. S., Seales W. B. (2000) "Beyond 2D Images: Effective 3D Imaging for Library Materials," *ACM Conference on Digital Libraries (ACM DL'00* [later to become **JCDL**]), Jun 2000
- [C-5] Yang R., Brown M.S., Seales W.B., Fuchs H. (1999). "Geometrically Correct Imagery for Teleconferencing," *ACM Multimedia (ACM-MM'99)*, Nov 1999
- [C-4] Raskar R., Brown M. S., Yang R.G, Chen W.C., Welch, G., Towles H., Seales W.B., Fuchs H. (1999) "Seamless Camera-Registered Multi-Projector Display over Irregular Surfaces," *IEEE Visualization (VIS'99)*, Oct 1999
- [C-3] Elsayed E. , Brown M.S., Seales W. B. (1999) "Cooperative Stereo: Combining Edge-Based and Area-Based Stereo," *IEEE Aerospace Conference*, Feb 1999
- [C-2] Brown M.S., Seales W. B. (1998) "Fast Stereo Matching in Compressed Video", *Asian Conference on Computer Vision (ACCV'98)*, Jan 1998
- [C-1] Seales W. B, Yuan C.J., Brown M.S. (1997) "Efficient Content Extraction In Compressed Images," *IEEE Workshop on Content-Based Access of Image and Video Libraries*, Part of *IEEE Computer Vision and Pattern Recognition*, Jun 1997

OTHERS PUBLICATIONS

(The following are notable peer reviewed abstracts for presentation at the American Roentgen Ray Society (ARRS) and Radiological Society of North America (RSNA), medical conferences for radiologists. This work is in partnership with colleague and senior author from Cornell University, Prof. George Shih, MD, at the Weill Cornell Medical Center in New York.)

[A-5] Roy S., M.S. Brown, Shih G. (2012) “Retina Displays: Image Interpolation Methods for Resizing Medical Images for Tablets”, *RSNA Annual Meeting*, Chicago, Nov 2012

[A-4] Roy S., M.S. Brown, Shih G. (2012) “Automatic 3D Volume Extraction from 2D Annotations”, *RSNA Annual Meeting*, Chicago, Nov 2012 [**Winner of the RSNA Trainee Research Prize**]

[A-3] Roy S., Yao, M. J., M.S. Brown, Shih G. (2011) “Visual Interpretation with Three-Dimensional Annotations (VITA): Open Source Automated 3D Visual Summary Application Using Annotation Imaging Markup (AIM) Enabled PACS Based On Radiologist Annotations”, *RSNA Annual Meeting*, Chicago, Nov 2011

[A-2] Amans M., Yeh C., Brown M.S., Zheng L., Shih G. (2009) “Wireless Devices Enhances Resident Case Conferences”, *ARRS Annual Meeting*, Boston, Apr 2009

[A-1] Yeh C., Amans M., Shih G., Kutch F., Brown M.S., Zheng L. (2009) “Nintendo Wii Remote (Wiimote) as Alternative Input Device for Reviewing Radiology Exams”, *ARRS Annual Meeting*, Boston, Apr 2009

TUTORIAL/COURSES

- ECCV 2014 – Morning Tutorial
Understanding the In-Camera Image Processing Pipeline for Computer Vision
Co-Organizer Seon Joo Kim, Yonsei University
- ICIP 2013 – Morning Tutorial
From RAW to sRGB and Back: Modeling the Onboard Camera Processing Pipeline
- CVPR 2005 – Morning Tutorial
Computer-Vision Techniques for Building Projector-Based Displays
Co-Organizer Aditi Majumder, UC-Irvine
- ECCV 2004 – Morning Tutorial
Tutorial #5: *Camera-Based Techniques for Building Large-Area Multi-Projector Displays*
Co-Organizer Aditi Majumder, UC-Irvine
- SIGGRAPH 2003 – Half Day Course
Course #39: *Recent Techniques for Building Affordable and Flexible Tiled Displays*
Co-Organizer Aditi Majumder, UC-Irvine
- EUROGRAPHICS 2003 – Half Day Course
Tutorial #8: *Building Large Format Displays*
Co-Organizer Aditi Majumder, UC-Irvine

CONFERENCE/ WORKSHOP SPEAKER

- (Keynote Speaker) “Color and Commodity Cameras: The Good, the Bad, and the Ugly”
ICCV 5th Color and Photometry in Computer Vision Workshop, Santiago, Chile 2015
- (Invited Speaker) “Data-driven White-Balance: A Cautionary Tale on Using Machine Learning”
ICCV Workshop on Machine Learning for Intelligent Image and Video Processing, Santiago, Chile 2015
- (Panel Speaker) “Computational Photography”
ICME 2015, Torino, Italy
- (Invited Speaker) “A Framework for Ultra-High Resolution 3D Imaging”

- ICCV13 Workshop on Computer Vision for Accelerated Bioscience, Dec 2013
 - (Keynote) “Don't Believe Anything You See: Modern Digital Photography and the Camera Imaging Pipeline”
- ACCV12 Workshop on Computational Photography, Korea, Nov 2012
 - (Invited Speaker) “Don't Believe Anything You See: Modern Digital Photography and the Camera Imaging Pipeline”
- PREMIA Annual General Meeting, Singapore, Aug 2012
 - (Invited Speaker) “Modeling the Digital Camera Pipeline: From RAW to sRGB and Back”
- NIPS Workshop: Computational Photography Meets Machine Learning, Spain, Dec 2011
 - (Invited Speaker) “Imaging and Graphics in Singapore for eHeritage”
- Dunhuang Academy Forum, Dunhuang , China, Aug 2011
 - (Invited Speaker) “Imaging and Graphics in Singapore for eHeritage”
- Interactive Digital Media Symposium (UIUC/ADSC), Singapore, Jul 2011
 - (Invited Speaker) “Applications in Computational Photography”
- Australian Computer Vision and Pattern Recognition Summer School, Mar 2011
 - (Invited Speaker) “Digital Correction of Ink-Bleed in Manuscripts Records”
- Workshop on Preservation of Recorded Heritage, Singapore, March 2010
 - (Keynote) “Interactive Computer Vision -- Exploiting the Human Prior”
- Digital Imaging Computing: Techniques and Applications, (DICTA), Melbourne, Dec 2009
 - (Invited Speaker) “Building Software for Dealing with Ink-Bleed in Manuscripts Records”
- International Conference on Records and Archives, Singapore , Jun 2008
 - (Invited Speaker) “Advances in Projector Based Display Design”
- International Conference on VR and Applications, Tianjin China, Oct 2003

INVITED TALKS

- “Color and Commodity Cameras: The Good, the Bad, and the Ugly”
Google, Mountain View (Dec 2015)
- “Color and Commodity Cameras: The Good, the Bad, and the Ugly”
Adobe, San Jose (Dec 2015)
- “Revisiting Image Stitching for Panoramic Image Construction”
Seoul National University, Korea (Feb 2015)
- “Revisiting Image Stitching for Panoramic Image Construction”
Yonsei University, Korea (Feb 2015)
- “On Image Mosaicing and Layer Separation”
University of Kentucky (July 2014)
- “Interactive Computer Vision”
Yonsei University, Korea (Feb 2014)
- “Interactive Computer Vision”
Inha University, Korea (Feb 2014)
- “Photo-Refinishing: A New In-Camera Imaging Model for RAW-to-sRGB and its Application”
Adobe, USA (Feb 2013)
- “Revisiting Image Mosaicing”
University of Southern California (CVPR AC Workshop) (Feb 2013)
- “Don't Believe Anything You See: Modern Digital Photography and the Camera Imaging Pipeline”
University of California - Irvine (Feb 2013)
- “A New In-Camera Imaging Model or Color Computer Vision and Its Applications”
Seoul National University (ACCV AC Workshop) (Sep 2012)
- “Modeling the Digital Camera Pipeline: From RAW to sRGB and Back”
Georgia Institute of Technology (Jun 2012)
- “Modeling the Digital Camera Pipeline: From RAW to sRGB and Back”
Technical University of Munich (May 2012)

- “Modeling the Digital Camera Pipeline: From RAW to sRGB and Back”
Johannes Kepler University (Mar 2012)
- “Modeling the Digital Camera Pipeline: From RAW to sRGB and Back”
Korean Advanced Institution of Science and Technology (Oct 2011)
- “Modeling the Digital Camera Pipeline: From RAW to sRGB and Back”
HP Labs, California (Aug 2011)
- “Interactive Visualization of Hyperspectral Images of Old Documents”
Australian National University-NICTA, Canberra Australia (Mar 2011)
- “Interactive Visualization of Hyperspectral Images of Old Documents”
Brigham Young University (Oct 2010)
- “Interactive Computer Vision”
University of Adelaide, South Australia (Nov 2009)
- “Research on Interactive Computer Vision”
Zhejiang University (CAD/CAM State Key Lab), Hangzhou China (Apr 2009)
- “Tools for Scholars Studying Old Documents”
eHeritage Workshop – sponsored by MSRA, Beijing China (Jul 2008)
- “Shape Palettes”
University of Kentucky, (May 2008)
- “Shape Palettes”
Western Australia University, Perth (Jul 2007)
- “Advances in Building Large Scale Displays”
National University of Singapore, (Mar 2005)
- “Acquiring, Restoring, and Analyzing Medieval Manuscripts”
Colorado School of Mines, Golden Colorado (Feb 2005)
- “Recent Camera-based Techniques for Building Large Scale Displays”
Zhejiang University (CAD/CAM State Key Lab), Hangzhou China (Apr 2004)
- “Easily-Constructed Large Scale Displays”
Microsoft Research Asia, Beijing China (Aug 2002)
- “Working-Set Compression: I-Frame Reduction for Encoded Video”
Xi’an Electronic Institute (State Key Lab), Xi’an China (Jun 2002)
- “Digital Special Collections”
Department of Computer Science, Simon Fraser University, Canada (Nov 2001)
- “Digital Special Collections”
Department of Computer Science, University of Bristol, England (Jun 2000)

PHD THESIS
SUPERVISED

- Cheng Dongliang (Ph.D. 2016, NUS)
Title: “Study of Illumination Estimation and Ground Truth Colors for Color Constancy”
(Current Position: Palm Wind [startup], China)
- Li Yu (Ph.D. 2015, NUS)
Title: “Separating Layers in Images and Its Applications”
(Current Position: Advance Digital Science Centre, Singapore)
- Sharmili Roy Sethy (Ph.D. 2014, NUS)
Title: “Next Generation Reporting and Diagnostic Tools for Healthcare and Biomedical Applications”
(Current Position: NUS/A*STAR Clinical Imaging Research Centre - Singapore)
- Gao Junhong (Ph.D. 2013, NUS)
Title: “New Strategies for Generating Panoramic Images for Imperfect Image Series”
(Current Position: Researcher at Mozat Pte Ltd)
- Lin Haiting (Ph.D. 2013, NUS)
Title: “A New In-Camera Color Imaging Model for Computer Vision”
(Current Position: Post-Doc - University of Delaware)
- Deng Fanbo (Ph.D. 2013, NUS)
Title: “On Using and Improving Gradient Domain Processing for Image Enhancement”
(Current Position: Post-Doc - National University of Singapore)

- Lu Zheng (Ph.D. 2011, NUS)
Title: “High-Resolution Imaging for e-Heritage”, National University of Singapore, Dec 2011
(Current Position: Assistant Professor - City University of Hong Kong)
- Yu-Wing Tai (Ph.D. 2009, NUS)
Title: “Bayesian Optimization for Image Segmentation, Texture Flow Estimation, and Image Deblurring”
(Current Position: Assoc Prof. KAIST, Korea – now at SenseTime – Hong Kong)
- Yau-Chat (Desmond) Tsoi (Ph.D. 2009, NTU)
Title: “Geometric and Photometric Distortion Correction for Camera-Imaged Documents: A Unified Approach using Boundary”
(Current Position: Lecturer – Hong Kong University of Science and Technology)

MASTER THESIS
SUPERVISED

- Guo Fangfang (MSc.’14, NUS)
Current Position: Baidu
- Liu Shuaicheng (MPhil.’10, NUS)
Current Position: University of Electronic Science and Technology of China
- Fong Heung Wah (M.Phil. 2004, HKUST)
Current Position: Virtuos, Shanghai
- William Wong (M.Sc. 2004, HKUST)
Current Position: Multimedia Designer (Independent)
- Tsang Kin Ting (M.Phil.’04, HKUST)
Current Position: Harmonics Inc, Hong Kong
- Ruiduo (Alan) Yang (M.Phil.’02, HKUST)
Current Position: Qualcomm, USA (after PhD from U.SF)

CURRENT
STUDENTS

- Nguyen Ho Man Rang (Ph.D. expected 2016)
- Mahsa Pakenzhad (Ph.D. expected 2017)
- Abdelrahman Kamel (Ph.D. expected 2019)
- Hakki Can Karaimer (Ph.D. expected 2019)
- Sixing Hu (Ph.D. expected 2019)

CURRENT STAFF

- Alvaro Gauterin (Research Associate)

FORMER STAFF

- Dilip Prasad (Research Fellow)
- Nguyen Ho Man Rang (Research Assistant)
- Russell Looi (Research Assistant)
- Vittal Premachandran (Research Fellow)
- Sharmili Roy (Research Assistant)
- N. V. Kartheek Medathati (Research Assistant)
- Seon Joo Kim (Research Fellow)
- Zhuo Shaojie (Research Assistant)
- Grani Adiwena Hanasusanto (Research Assistant)
- Wu Zheng (Research Fellow)
- Vu Anh Huynh (Research Assistant)
- Poon-Wei Koot (Research Assistant)

EXTERNAL PH.D.
EXAMINER

- Kapila K Pahalawatta, Ph.D. Candidate, University of Canterbury, Nov 2014
- Stuart Lynch, Ph.D. Candidate, University of East Anglia (United Kingdom), May 2014
- Zohaib Khan, Ph.D. Candidate, Computer Science and Software Engineering, Western Australia University, April 2014
- Yingying Zhu, Ph.D. Candidate, Information Technology and Electrical Engineering, University of Queensland (Australia), April 2014

- Teng Xiao, Ph.D. Candidate, Computer Science, Nanyang Technological University (Singapore), June 2013
- Pawan Harish, Ph.D. Candidate, Center for Visual Information Technology, International Institute of Information Technology (IIIT) – Hyderabad, Jan 2013
- Ben Ward, Ph.D. Candidate, Computer Science, University of Adelaide (Australia), Oct 2012
- Cong Phuoc Huynh, Ph.D. Candidate, Computer Science, Australian National University (ANU), Nov 2011
- Arnav V. Bhavsar, Ph.D. Candidate, Electrical Engineering, Indian Institute of Technology (IIT) – Madras, July 2011
- Steve Oldridge, Ph.D. Candidate, Computer Science, University of British Columbia, Jan 2011
- Yang-Wai Chow, Ph.D. Candidate, Computer Science, Monash University (Australia) Oct 2006

UNIVERSITY
SERVICE

- **National University of Singapore**
 - Vice Dean (Corporate Relations), July 2013 - present
 - Area Leader (Media), Nov 2012 – Dec 2014
 - Assistant Dean (Corporate Relations), April 2011 – June 2013
 - Chair - Teaching Evaluation Committee (TEC), August 2011 – present
 - Member – Ad-Hoc Committee on Teaching Improvement – 2010/2011