Abdelrahman Abdelhamed

PhD Student (Computer Science), York University

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in abdoukamel 📍 Toronto, Canada

Experience

Borealis AI
Research Intern (Machine Learning and Computer Vision)
📅 October 2018 – April 2018   📍 Toronto, Canada

York University
Teaching and Research Assistant
📅 January 2017 – present   📍 Toronto, Canada

National University of Singapore
Teaching and Research Assistant
📅 January 2016 – December 2016   📍 Singapore

Assiut University
Assistant Lecturer
📅 March 2014 – July 2015   📍 Assiut, Egypt

Teaching and Research Assistant
📅 October 2009 – March 2014   📍 Assiut, Egypt

Volunteer

Workshop/Challenge Organizer
New Trends in Image Restoration and Enhancement Workshop and
Challenges (NTIRE) @ CVPR   📅 2019

Website Chair
Computer Vision and Pattern Recognition (CVPR)   📅 2018

Reviewer
Computer Vision and Pattern Recognition (CVPR)

International Conference on Computer Vision (ICCV)

British Machine Vision Conference (BMVC)

Winter Conference on Applications of Computer Vision (WACV)

Conference on Computer and Robot Vision (CRV)

IEEE Image Processing   IET Computer Vision

IET Image Processing   Elsevier Signal Processing

Awards

Color and Imaging Conference
CIC27 Best Paper Award   📅 2019

York University
AdeptMind Scholarship   📅 2018

Ontario Trillium Scholarship (OTS)   📅 2017

Lassonde Entrance Scholarship   📅 2017

York Graduate Scholarship (YGS)   📅 2017

Assiut University
Best MSc thesis   📅 2016

National University of Singapore
NUS Research Scholarship   📅 2015

Education

York University
PhD in Computer Science
📅 December 2020 (expected)   📍 Canada

National University of Singapore
MSc in Computer Science
📅 December 2016   📍 Singapore

Assiut University
MSc in Computer Science
📅 March 2014   📍 Egypt

BSc in Computer Science
📅 June 2009   📍 Egypt

Research Interests

Computer Vision, Image Processing,
Computational Photography, Machine
Learning, Human Computer Interaction

Skills

Python   Matlab   C++   C#   JAVA   TensorFlow   Android   Camera2 API   OpenCV   PHP   MPI   MapReduce   MySQL   .NET

References

Michael S. Brown
Professor, Canada Research Chair in Computer Vision, York University. Senior Research Director, Samsung AI, Canada.
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I. Scott MacKenzie
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Brian Price
Senior Research Scientist, PhD, Creative Intelligenc eLab, Adobe Research, USA
✉ bprice@adobe.com
🌐 https://research.adobe.com/person/brian-price/

Publications

Noise Flow: Noise Modeling with Conditional Normalizing Flows
Abdelhamed A., Brubaker M. A., Brown M. S.
International Conference on Computer Vision (**ICCV**), 2019.
Oral presentation.

Color Temperature Tuning: Allowing Accurate Post-capture White-balance Editing
Afifi M., Punnappurath A., **Abdelhamed A.**, Karaimer H. C., Abuolaim A., Brown M. S.
Color and Imaging Conference (**CIC**), 2019.
Oral Presentation. CIC27 Best Paper Award.

NTIRE 2019 Challenge on Real Image Denoising: Methods and Results
Abdelhamed A., Timofte R., Brown M. S., et al.
Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2019.

AFIF4: Deep Gender Classification Based on AdaBoost-based Fusion of Isolated Facial Features and Foggy Faces
Afifi M., **Abdelhamed A.**
Journal of Visual Communication and Image Representation (**JVCIR**), 2019.

MarkWhite: An Improved Interactive White-Balance Method for Smartphone Cameras
Abdelhamed A., MacKenzie I. S., Brown M. S.
Graphics Interface (**GI**), 2019.
Oral Presentation.

A High-Quality Denoising Dataset for Smartphone Cameras
Abdelhamed A., Lin S., Brown M. S.
Computer Vision and Pattern Recognition (**CVPR**), 2018.

Two Illuminant Estimation and User Correction Preference
Cheng D.*, **Abdelrahman Kamel***, Price B., Cohen S., Brown M. S. * Equal Contribution
Computer Vision and Pattern Recognition (**CVPR**), 2016.

Multi-Bin Search: Improved Large-Scale Content-Based Image Retrieval
Abdelrahman Kamel, Mahdy Y. B., Hussain K. F.
International Journal of Multimedia Information Retrieval (**IJMIR**), 2014.

Multi-Bin Search: Improved Large-Scale Content-Based Image Retrieval
Abdelrahman Kamel, Mahdy Y. B., Hussain K. F.
International Conference on Image Processing (**ICIP**), 2013.
Oral Presentation.