Department of Computer Science

Faculty

Jiebo Luo

Professor of Computer Science

PhD

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Biography

Jiebo Luo joined the Department of Computer Science at the University of Rochester in the fall of 2011 after over fifteen years at Kodak Research Laboratories, where he was a senior principal scientist leading research and advanced development. He has been involved in numerous technical conferences, including serving as the program co-chair of ACM Multimedia 2010, IEEE CVPR 2012, ACM ICMR 2016, and IEEE ICIP 2017. He has served on the editorial boards of the IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Multimedia, IEEE Transactions on Circuits and Systems for

Video Technology, ACM Transactions on Intelligent Systems and Technology, Pattern Recognition, Machine Vision and Applications, and Journal of Electronic Imaging. He is a Fellow of the SPIE, IEEE, and IAPR, as well a member of the ACM and AAAI. Dr. Luo is a Data Science CoE Distinguished Researcher with the Goergen Institute for Data Science (http://www.rochester.edu/data-science/) .
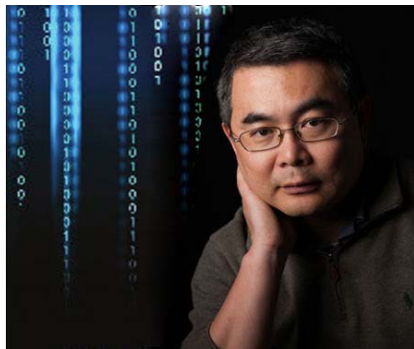
His research spans image processing, computer vision, machine learning, data mining, social media, biomedical informatics, and ubiquitous computing. He has published extensively with over 300 peer-reviewed papers and 90 granted US patents. Publications

Publications

http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/l/Luo:Jiebo.html (http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/l/Luo:Jiebo.html)

Awards

IEEE Multimedia Best Paper Prize (2014); Best Student Paper (CVPR 2010, senior author); Eastman Innovation Award (2004)

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Computer Vision Urban Computing
Biomedical & Health Analytics
Image Retrieval Image Segmentation
Scene Classification Big Data
Contextual Inference Machine
Learning Vision+Language
Random Field Photo Collection
Multimedia   Video Analytics
Human-Centered Media & Interaction
Mobile Media Location-based service
Geo Tagging Action Recognition
Heterogeneous Information Networks
Social Multimedia Data Mining
Crowdsourcing People Analytics

News

08/21/2017: Professor Luo is quoted by *Market Mogul* in a feature
"Here's How Big Data Transformation Will Sweep Information Sovereignty"

08/14/2017: Professor Luo is interviewed by *Bloomberg Technology* in a feature
"China's Plan for World Domination in AI Isn't So Crazy After All"

07/26/2017: Professor Luo is an invited speaker at CVPR 2017 Workshop on
Medical Computer Vision and Health Informatics

07/212017: Professor Luo is co-organizing *Language and Vision Workshop* at CVPR 2017

07/21/2017: Professor Luo is co-teaching CVPR 2017 Tutorial (lecture notes online) on
Dealing with Reality: Low-Quality Visual Data Processing and Analytics

05/29/2017: Professor Luo is interviewed by *Xinhua News Agency* on the heels of AlphaGo's triumph over Ke Jie
Spotlight: Artificial intelligence fuels visions of how smart future can be

03/20/2017: Our work on *Detecting the Hate Code on Social Media* is covered extensively
by *Geek.com*, *Vice.com*, *Digital Trends*, *MSN*, *Thestack.com*

Our work is especially timely given that
1) YouTube is facing a full-scale advertising boycott over hate speech, and
2) Tech Giants Vow to Tackle Online Hate Speech Within 24 Hours

02/24/2017: Professor Luo's Data Mining course was considered "favorite class taken at the University of Rochester"
in the Data Science program (Featured Article: *Data science for a better planet*)

02/11/2017: **NEW** National Science Foundation Research Experience for Undergraduates (NSF REU)
Computational Methods for Understanding Music, Media, and Minds
Please note that the projects are flexible and the current descriptions are meant as examples.

11/07/2016: Professor Luo is a panelist on **NPR Radio, WXXI** *Connections* hosted by Evan Dawson
Monthly Science Roundtable "Twitter, Social Media and The Election"

10/21/2016: Our work on *fine-grained recognition of East Asian faces* is covered by *Washington Post*
You are welcome to take the Asian Face Challenge at http://www.vista-today.com/asianmyth
to help benchmark human recognition performance (currently at 49% with 400+ tests)
Another story on *NextShark*

10/01/2016: Professor Luo speaks at the *Huang Symposium* @UIUC to celebrate the 80th birthday and
extraordinary career of Professor Thomas S. Huang

08/29/2016: Congratulations to Tianran Hu who receives a student travel scholarship to attend CIKM 2016.

07/20/2016: URCS is highly ranked among the ***Top universities in Artificial Intelligence for the period of 2000-2016 by an objective measure of faculty publications***

07/19/2016: URCS is among the ***Top 20 Artificial Intelligence Engineering Schools in the U.S.***

07/01/2016: Congratulations to Quanzeng You for being invited to the ***2016 ACM Multimedia Doctoral Symposium*** with a travel scholarship

06/26/2016: Yiheng Zhou and Numair Sani, our undergraduate researchers, present their work on mining Instagram for illicit drug use patterns at SBP-BRiMS 2016, supported by student travel scholarship

06/09/2016: Our work on *"Will Sanders Supporters Jump Ship to Trump?"* is covered by ***Pacific Standard***

05/10/2016: Our work on using AI to hunt drug dealers on Instagram is covered by ***Daily Dot***

05/04/2016: Our work on *"Voting with Feet: Who are leaving Hilary Clinton and Donald Trump"* is covered by ***AOL***, ***Daily Dot***, ***LipTV***, ***Pivot America***

04/21/2016: Zhishen Pan, a Junior student in the Data Science program, won the Poster Presentation Award at the 2nd Annual Rochester Global Health Symposium & UNYTE Scientific Session: Innovative Solutions to Combat Global Health Disparities for the poster "Towards Understanding How News Coverage Affects Public Perception During Epidemic Outbreak." Congratulations!

04/18/2016: Yu Wang receives a student travel scholarship to attend ICWSM-2016

03/29/2016: Congratulations to Yuncheng Li, who has been invited to the ***CVPR 2016 Doctoral Consortium***

03/20/2016: Our work on *using Twitter user avatar facial analysis to study Trump and Clinton followers* is covered by ***MIT Technology Review***, ***Digital Trends***, ***Market Exclusive***

03/17/2016: Our CVPR 2016 paper - *"Image Captioning with Semantic Attention"* - describes the engine behind a system that has been sitting atop the Leader Board for the Microsoft COCO (Common Objects in Context) Image Captioning Challenge since November 2015, beating *Google, Microsoft, Baidu/UCLA, Stanford, UC Berkeley, University of Toronto/Montreal*, and other power houses. **Full Story**.

03/16/2016: Our work on *detecting drinking-while-tweeting patterns* is covered by ***MIT Technology Review***, ***Gizmodo,*** **CBS News**, *NPR Weekend Edition*, ***Engadget,*** *and more*

02/06/2016: Our work on *estimating city air pollution from crowd-sourced photo*s is covered by ***New Scientist*** Try our demo system.

12/21/2015: Quanzeng You is a Finalist for the inaugural Adobe Research Fellowship

11/01/2015: Our work on *using Instagram posts to determine underage drinking patterns* has been covered by ***Innovation Trail***, ***Digital Trends***, ***Democratic and Chronicle***, ***TechRadar***, ***Medical Daily***, ***The Science Explorer***, *iTech Post*

10/01/2015: Yu Wang and Tianran Hu receive student travel scholarships to attend IEEE ICDM 2015

10/02/2015: **Data Science Faculty Search** (2015-2016): *neurally-inspired computing; computer vision for medicine and humanities*

10/01/2015: Yu Wang receives a student travel scholarship to attend IEEE BigData 2015

08/28/2015: Our *data-driven study on the influence of fashion shows on everyday trends* has been featured by ***New York Post***, ***Science News,*** ***El País (major Spanish Newspaper)***, ***MIT Technology Review***

08/20/2015: Yuncheng Li et al. win the ***Best Paper Award*** at ICIMCS 2015 for the work on Using User Generated Photos to Monitor Air Pollution in Cities

07/20/2015: Deadline of the International Workshop on Social Multimedia Data Mining at ICDM 2015 (Atlantic City)

07/14/2015: Quanzeng You is invited to the 2015 ***Microsoft Research Asia Ph.D. Forum*** among "30 of the best Asian Ph.D. students from the Asia-Pacific region and the U.S."

05/15/2015: Prof. Luo is named a ***Data Science CoE Distinguished Researcher*** @Goergen Institute for Data Science

05/12/2015: Tianran Hu receives a student travel scholarship to attend ICWSM-2015

02/15/2015 Our work on *computational image sentiment analysi*s is covered by ***Tech Times***, ***Science 2.0***

02/03/2015: ***Communications of ACM*** coverage of our *Non-Obtrusive Mental Health Monitoring* work; also ***Gizmag***

12/15/2014: ICDM Tutorial on "Social Multimedia as Sensors"
12/14/2014: Workshop on Social Multimedia Data Mining at ICDM 2014

12/07/2014: Quanzeng You receives a student travel scholarship to attend AAAI-2015