

# Yusuke Matsui

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## RESEARCH INTERESTS

Computer vision, computer graphics, and multimedia processing. More specifically, image retrieval and comic image processing.

## EDUCATION

The University of Tokyo, Tokyo, Japan

- Doctor of Philosophy (Ph.D.) Apr 2013 – Mar 2016
  - Thesis: Retrieval and Drawing Assistance for Manga
  - Adviser: Prof. Kiyoharu Aizawa
  - Focus: Sketch-based image retrieval, nearest neighbor search, drawing assistance
  - Department of Information and Communication Engineering
- Master of Arts (M.A.) Apr 2011 – Mar 2013
  - Department of Interdisciplinary Information Studies
- Bachelor of Engineering (B.E.) Apr 2007 – Mar 2011
  - Department of Information and Communication Engineering

## RESEARCH EXPERIENCE

National Institute of Informatics (NII), Tokyo, Japan

- Postdoctoral researcher Apr 2016 –
  - working in Prof. Shin'ichi Satoh's group.

Columbia University, New York, NY, USA

- Visiting student Feb 2016 – Mar 2016
  - at DVMM lab with Prof. Shih-Fu Chang.
  - Focus: Efficient nearest neighbor search

Microsoft Research Redmond, Redmond, WA, USA

- Research internship May 2014 – Aug 2014
  - supervised by Dr. Yinpeng Chen.
  - Focus: Cartoon rendering for immersive telecommunications

Microsoft Research Asia, Beijing, China

- Research internship Jul 2013 – Oct 2013
  - supervised by Dr. Takaaki Shiratori.
  - Focus: Drawing assistance system

## SELECTED PUBLICATIONS

### JOURNALS

- [1] [Y. Matsui](#), T. Shiratori, and K. Aizawa, "DrawFromDrawings: 2D Drawing Assistance via Stroke Interpolation with a Sketch Database," *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, vol. 23, no. 7, pp. 1852–1862, 2017.
- [2] [Y. Matsui](#), K. Ito, Y. Aramaki, A. Fujimoto, T. Ogawa, T. Yamasaki, and K. Aizawa, "Sketch-based Manga Retrieval using Manga109 Dataset," *Multimedia Tools and Applications (MTAP)*, vol. 76, no. 20, pp. 21811–21838, 2017.

### CONFERENCES

- [3] [Y. Matsui](#), K. Ogaki, T. Yamasaki, and K. Aizawa, "PQk-means: Billion-scale Clustering for Product-quantized Codes," in *Proceedings of ACM International Conference on Multimedia (ACMMM)*, 2017.
- [4] [Y. Matsui](#), T. Yamasaki, and K. Aizawa, "PQTable: Fast Exact Asymmetric Distance Neighbor Search for Product Quantization using Hash Tables," in *Proceedings of International Conference on Computer Vision (ICCV)*, 2015.

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