Masahiro Hirano

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Personal Data

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Research Interests

Geometry Processing and its Application
Computer Vision
Intelligent Transportation Systems

Work Experience

Current Apr 2015	Research Fellow (DC1) *Japan Society for the Promotion of Science*, Japan Three years research fellowship for young scientists.
Apr 2013-Mar 2015	Technical Assistant at Ishikawa Watanabe Laboratory, *The University of Tokyo*, Japan Developed collision avoidance systems based on Networked High-speed Vision System.
Aug 2013	Summer Intern at Morgan Stanley MUFG Securities Co., Ltd., Japan Worked with both Sales and Trading team and Technology team in Fixed Income Division.

Education

Current Apr 2015	Ph.D student in Information Science and Technology Graduate School of Information Science and Technology *The University of Tokyo*, Japan Supervisor: Prof. Masatoshi Ishikawa
Apr 2013-Mar 2015	Master in Information Science and Technology Graduate School of Information Science and Technology *The University of Tokyo*, Japan Supervisor: Prof. Masatoshi Ishikawa
Apr 2009-Mar 2013	Bachelor in Engineering School of Engineering *The University of Tokyo*, Japan Supervisor: Prof. Koji Tsumura

Publications

Journal

1. Masahiro Hirano, Akihito Noda, Masatoshi Ishikawa and Yuji Yamakawa:
   Networked High-speed Vision for Evasive Maneuver Assist,
   ICT express, Vol.3, No.4, pp.178-182, 2017.
   (DOI: https://doi.org/10.1016/j.icte.2017.11.008)

2. Masahiro Hirano, Yoshihiro Watanabe and Masatoshi Ishikawa:
   Closed Curve Blending based on Curvature flow,
   IPSJ Journal, Vol.58, No.7, 2017 (in Japanese, recommended paper).
   (LINK: http://id.nii.ac.jp/1001/00182656/)

3. Masahiro Hirano, Yoshihiro Watanabe and Masatoshi Ishikawa:
   Rapid blending of closed curves based on curvature flow,
   Computer Aided Geometric Design (special issue of GMP2017), Vol.52-53C, pp.217-230, 2017.
   (DOI: https://doi.org/10.1016/j.cagd.2017.03.005)

Conference

1. Masahiro Hirano, Yoshihiro Watanabe, Masatoshi Ishikawa:
   Rapid blending of closed curves based on curvature flow,
   International Conference on Geometric Modeling and Processing (GMP2017), 2017.
   (DOI: https://doi.org/10.1016/j.cagd.2017.03.005)

2. Masahiro Hirano, Yoshihiro Watanabe, Masatoshi Ishikawa:
   Closed curve blending based on curvature flow,
   The Symposium on Solid & Physical Modeling 2016 (SPM2016), Abstracts, 2016.
   (LINK: http://www.k2.t.u-tokyo.ac.jp/members/hirano/spm2016.pdf)

3. Masahiro Hirano, Yoshihiro Watanabe and Masatoshi Ishikawa:
   3D Rectification of Distorted Document Image based on Tiled Rectangle Fragments,
   In Proceedings of the 2014 IEEE International Conference on Image Processing (ICIP2014), pp.2604-2608, 2014.
   (DOI: https://doi.org/10.1109/ICIP.2014.7025527)

4. Masahiro Hirano, Akihito Noda, Yuji Yamakawa and Masatoshi Ishikawa:
   Collision avoidance of Intelligent Vehicle based on Networked High-speed Vision System,
   In Proceedings of the 11th International Conference on Informatics in Control, Automation and Robotics (ICINCO2014), Vol.2, pp.539-544, 2014.
   (DOI: https://doi.org/10.5220/0005100105390544)

5. Akihito Noda, Masahiro Hirano, Yuji Yamakawa and Masatoshi Ishikawa:
   A Networked High-Speed Vision System for Vehicle Tracking,
   In Proceedings of the 2014 IEEE Sensors Applications Symposium (SAS2014), pp.343-348, 2014.
   (DOI: https://doi.org/10.1109/SAS.2014.6798973)

And nine other domestic conference presentations.

Awards & Honors

2017 Best Presentation Award
The Society of Instrument and Control Engineers, System Integration Technical Division
2016 IPSJ Yamashita SIG Research Award
Information Processing Society of Japan
Given to presenters of excellent papers in SIG proceedings. Ranked *No.1* in computer graphics.
2015 Best Research Presentation Award
Information Processing Society of Japan, SIG. Computer Graphics and Visual Informatics
2015 Scholarship Loan Repayment Exemption for Students with Excellent Record
Japan Student Service Organization (JASSO)

Teaching Experiences

Teaching Assistant

Introduction to Design and Automation for Information Physics and Computing (2015,2016)
Electronic Circuits Ⅱ (2015)
Seminar in Information Physics and Computing Ⅰ (2014, 2015)
Information Physics and Computing Laboratory Ⅱ (2014)
Information Physics and Computing Laboratory Ⅰ (2013)
Exercises in Information Physics and Computing Ⅰ (2013)

Scholarships

Apr 2013-Mar 2015	Japan Student Service Organization (JASSO), Type Ⅰ Scholarship Japan Student Service Organization (JASSO), Type Ⅱ Scholarship

Languages

English: Fluent
Japanese: Native