

Curriculum Vitae

Dr. Norifumi KAWABATA

Principal Investigator
Computational Imaging Lab, Kanazawa, Japan

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1 Affiliation

Principal Investigator, Computational Imaging Lab, Kanazawa-shi, Ishikawa, 920–1155 Japan

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2 Academic & Professional Experience

- May 2024 – present
Principal Investigator,
Education and Research Division of Mathematical and Data Science / Research Division of Computational Imaging / Industry-Academia Cooperative Research Division, **Computational Imaging Lab**
- April 2024 – April 2024
Associate Professor, Department of Information Engineering, Faculty of Information Engineering,
Kanazawa Gakuin University
- April 2023 – April 2024
Associate Professor,
Department of Economic Informatics, Faculty of Economic Informatics, **Kanazawa Gakuin University**
- April 2022 – March 2023
Principal Investigator,
Education and Research Division of Mathematical and Data Science / Research Division of Computational Imaging / Industry-Academia Cooperative Research Division, **Computational Imaging Lab**
- October 2021 – March 2022
Specially Appointed Assistant Professor,
Education and Research Center for Mathematical and Data Science, **Hokkaido University**
- August 2021 – September 2021
Assistant Technical Staff, Medical IT Center, Center for Healthcare Information Technology (C-HiT),
Tokai National Higher Education and Research System (THERS), **Nagoya University Hospital**
- April 2019 – July 2021
Assistant Professor,
Department of Information Sciences, Faculty of Science and Technology, **Tokyo University of Science**
- April 2018 – March 2019
Assistant Technical Staff,
Research Division of Transportation and Information System, Institutes of Innovation for Future Society,
Nagoya University
- April 2017 – March 2018
Research Fellow, Center for Frontier Medical Engineering (CFME), **Chiba University**

3 Academic Background

- April 2013 – March 2017
Miyao Laboratory, Information Platform Group, Department of Information Engineering,
Graduate School of Information Science, **Nagoya University**
- April 2011 – March 2013
Horita Laboratory, (Media Information and Communication Technology (MICT)),
Department of Intellectual Information Engineering, Graduate School of Science and Engineering
for Education, **University of Toyama**
- April 2007 – March 2011
Department of Intellectual Information Engineering, Faculty of Engineering, **University of Toyama**
- March 2007
Seiryō High School, General Course Graduation

4 Academic Degree

- March 2017, Ph.D. of Information Science in Nagoya University
- March 2013, Master of Engineering in University of Toyama
- March 2011, Bachelor of Engineering in University of Toyama

5 Research Field

- Information Engineering, Information Science, Computer Science
- Multi-view 3D Image and Video, Three-dimensional Image Processing, Three-dimensional Display
- 3DCG, Computational Imaging, Texture Informatics
- Image Media Quality, Visual Media Processing, Visual Information Science
- Image and Signal Processing, Digital Watermarking, Sparse Coding
- Color Information Science and Engineering, Colorization, Color Management
- Picture Coding / Image Media Processing, Super-resolution, 360 Degrees Image and Video
- Multivariate Analysis, Data Mining, Machine Learning
- Human Interface and Interaction, Human Factor, Medical Virtual Reality
- Medical System, Healthcare Informatics, Medical Imaging

6 Teaching and Research Experience

- May 2024 – present
Principal Investigator,
Education and Research Division of Mathematical and Data Science / Research Division of Computational
Imaging / Industry-Academia Cooperative Research Division, Computational Imaging Lab
Research on Imaging and Computer Science.
- April 2024 – April 2024
Associate Professor,
Department of Information Engineering, Faculty of Information Engineering, Kanazawa Gakuin University
Education and Research on Computer Engineering (Signal Processing).

- April 2023 – April 2024
Associate Professor,
Department of Economic Informatics, Faculty of Economic Informatics, Kanazawa Gakuin University
Education and Research on Multimedia Signal Processing towards Economic Informatics.
 - Computer Basic Exercises I a/b
 - Computer Basic Exercises II a/b
 - Programming Basis a/b
 - Programming I a/b
 - Programming III a/b
 - Programming IV a/b
 - Database I
 - Database II
 - Fundamental Seminar I
 - Fundamental Seminar II
- April 2022 – March 2023
Principal Investigator,
Education and Research Division of Mathematical and Data Science / Research Division of Computational Imaging / Industry-Academia Cooperative Research Division, Computational Imaging Lab
Research on Imaging and Computer Science.
 - Computational Imaging Lab Information Platform (Mathematical and Data Science Program, Application and Basis (Data Science Basis))
 - Computational Imaging Lab Information Platform (Mathematical and Data Science Program, Application and Basis (Data Engineering Basis))
 - Computational Imaging Lab Information Platform (Mathematical and Data Science Program, Application and Basis (AI Basis))
- October 2021 – March 2022
Specially Appointed Assistant Professor,
Education and Research Center for Mathematical and Data Science, Hokkaido University
Education and Research for Mathematical and Data Science.
 - MDS Platform (Clustering such as Regression Analysis, Hierarchical Clustering, Non-hierarchical Clustering, Naive Bayes Method, and Support Vector Machine Method)
 - MDS Platform (Optimization)
- August 2021 – September 2021
Assistant Technical Staff,
Medical IT Center, Nagoya University Hospital
A Study Support on Medical Information System to Smart Hospital.
- April 2019 – July 2021
Assistant Professor,
Department of Information Sciences, Faculty of Science and Technology,
Tokyo University of Science
Education and Research on computer sciences to the bio-medical science and technology field.
 - Introduction to Computer Systems and its Exercises (UNIX, Internet, TeX, C Language Programming)
 - Experiments in Information Sciences I (OCaml)
 - Exercises in Information Sciences I (Java)
 - Experiments in Information Sciences II (PBL)

- Exercises in Information Sciences II (Application of C Language Programming, Network Programming, SQL, PHP, JavaScript, Multimedia, Embedded System, Image Processing)
- Experiments in Information Sciences III
- Exercises in Information Sciences III
- Advanced Studies and Researches (Group Meeting, Image Processing Seminar, Skill Seminar, Journal Club)
- April 2018 – March 2019
Assistant Technical Staff,
Research Division of Transportation and Information Systems, Institutes of Innovation for Future Society, Nagoya University
 - Research Technical Assistance on Transportation and Information Systems in the Next Generation Mobility Society
- April 2017 – March 2018
Research Fellow,
Center for Frontier Medical Engineering, Chiba University
 - Education and Research on developing the Medical Support System using Virtual Reality System and Medical Image Engineering in Nakaguchi Laboratory.
- April 2014 – March 2015
Teaching Staff, School of Culture-Information Studies, Sugiyama Jogakuen University
 - Video and Animation Production (April 2014 – September 2014)
 - Graphics Design (October 2014 – March 2015)
- October 2013 – March 2014
Research Assistant, Graduate School of Information Science, Nagoya University
 - Outstanding Graduate COE support subsidy
- April 2013 – September 2013
Teaching Assistant, Nagoya University
 - Fundamental Seminar A (for Information Platform, Usability)
- October 2011 – March 2012
Teaching Assistant, University of Toyama
 - Liberal Principles of Exercise (C Language)

7 Qualification

- Mental calculation Grade 1
- Calculation on the Abacus Test Semi-first Step Grade
- Calligraphy First Step Grade
- The EIKEN Test in Practical English Proficiency Grade 2
- Car Driver License for Standard Vehicle
- High School Specialized Teacher's Certificate
- TOEIC 620

8 Technical Skill

8.1 Programming Languages

- C / Visual C++ / C#
- Java
- OCaml / ML
- LISP
- Assembly
- PHP
- Python
- R
- JavaScript
- HTML5 / CSS3

8.2 Tools

- MATLAB
- Scilab
- OpenCV
- Autodesk Maya
- Blender
- Unity
- Adobe Photoshop
- Adobe Premiere
- Adobe After Effect
- JM / High Efficiency Video Coding Software

9 Research Fund, Grant, and Scholarship

- FY2023
Traveling abroad Travel Expenses Assistance in the Telecommunications Advancement Foundation (IWAIT 2024)
- FY2023
Education and Research Fund for Faculty Member in Kanazawa Gakuin University
- FY2021
Education and Research Fund for Faculty Member in Tokyo University of Science
- FY2020
Education and Research Fund for Faculty Member in Tokyo University of Science
- FY2019
Education and Research Fund for Faculty Member in Tokyo University of Science

- FY2017
Traveling abroad Travel Expenses Assistance in the Telecommunications Advancement Foundation (IWAIT 2018)
- FY2016
Support Grant for Student to participate in the International Conference by ITE (ITC-CSCC 2016)
- FY2016
Scholarship for Ph.D. Student because of having the academic excellent result and submitting the doctor thesis
- FY2015
Research Grant for Ph.D. Student in Nagoya University
- FY2014
Research Grant for Ph.D. Student in Nagoya University
- FY2013
Outstanding Graduate COE Support Subsidy in Nagoya University

10 Affiliated Society, Contribution to Society

10.1 Affiliated Society

- The Institute of Image Information and Television Engineers (ITE)
(Member, from February 2011)
- The Institute of Electronics, Information and Communication Engineers (IEICE)
(Member, from August 2013)
- The Institute of Electrical and Electronics Engineers (IEEE)
(Member, from February 2014)
 - IEEE Signal Processing Society (IEEE SPS)
(Member, from February 2014)
 - IEEE Engineering in Medicine & Biology Society (IEEE EMBS)
(Member, from October 2020)
 - IEEE Computer Society (IEEE CS)
(Member, from October 2020)
- The Institute of Image Electronics Engineers of Japan (IEEEJ)
(Member, from April 2015)
- The Institute of Information Processing Society of Japan (IPSJ)
(Member, from January 2017)
- The Japanese Society of Medical Imaging Technology (JAMIT)
(Member, from April 2018)
- The Japan Society of Computer Aided Surgery (JSCAS)
(Member, from July 2018)
- The International Society for Optical Engineering (SPIE)
(Early Career Professional Member, from June 2020)
- Japan Association for Medical Informatics (JAMI)
(Member, from August 2021)
- Society for Imaging Science and Technology (IS&T)
(Member, from December 2021)

10.2 Committee Experience

- Councilor, Japan Society of Computer Aided Surgery (JSCAS) (December 2023 – present)
- Panel of judges, *R.5 IEICE Hokuriku Section Excellent Student Paper Award* (August 2023 – September 2023)
- Proctor, *International Collegiate Programming Contest (ICPC 2019) Asia Yokohama Regional Online First Round Contest* (July 2019 – July 2019)

10.3 Review Experience

- Reviewer, *2024 IEEE International Conference on Visual Communications and Image Processing (VCIP2024)* (from July 2024)
- Reviewer, *PeerJ Computer Science* (from July 2024, by once)
- Reviewer, *Remote Sensing* (from July 2024, by once)
- Reviewer, *Neural Networks* (from June 2024, by once)
- Reviewer, *IEEE Consumer Electronics Magazine* (from May 2024, by once)
- Reviewer, *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* (from May 2024, by once)
- Reviewer, *Electromagnetic Science* (from April 2024, by once)
- Reviewer, *IEEE Transactions on Information Forensics & Security (T-IFS)* (from January 2024, by once)
- Reviewer, *IEEE Transactions on Computational Imaging (TCI)* (from January 2024, by once)
- Reviewer, *The 2nd International Conference on Computer Graphics and Image Processing (CGIP2024)* (from December 2023 to January 2024, by three times)
- Reviewer, *IEEE Transactions on Intelligent Vehicles* (from October 2023, by once)
- Reviewer, *Chinese Optics Letters* (from October 2023, by once)
- Reviewer, *IEEE Transactions on Pattern Analysis and Machine Learning (PAMI)* (from September 2023, by once)
- Reviewer, *IEEE Transactions on Artificial Intelligence (TAI)* (from September 2023 to now, by once)
- Reviewer, *Computers in Biology and Medicine (CBM)* (from September 2023 to now, by once)
- Reviewer, *IEEE Transactions on Industrial Informatics (TII)* (from August 2023 to now, by once)
- Reviewer, *Big Data and Cognitive Computing (BDCC)* (from July 2023 to now, by once)

- Reviewer, *EURASIP Journal on Advances in Signal Processing*
(from June 2023 to now, by once)
- Reviewer, *International Journal of Environmental Research and Public Health*
(from February 2023 to now, by once)
- Reviewer, *IET Image Processing*
(from February 2023 to now, by once)
- Reviewer, *Nonlinear Theory and Its Applications, IEICE (NOLTA)*
(from January 2023 to now, by once)
- Reviewer, *IEEE Transactions on Consumer Electronics (TCE)*
(from December 2022 to now, by once)
- Reviewer, *Disaster Medicine and Public Health Preparedness (DMP)*
(from November 2022 to now, by once)
- Reviewer, *ACM Transactions on Privacy and Security (TOPS)*
(from July 2022 to now, by once)
- Reviewer, *IEICE Transactions on Information and Systems (JPN Edition, in Japanese)*
(from June 2022 to now, by once)
- Reviewer, *Discrete Dynamics in Nature and Society*
(from June 2022 to now, by once)
- Reviewer, *IEICE Transactions on Communications (JPN Edition, in Japanese)*
(from June 2022 to now, by once)
- Reviewer, *IEEE Transactions on Emerging Topics in Computational Intelligence*
(from February 2022 to now, by once)
- Reviewer, *IEEE Transactions on Dependable and Secure Computing*
(from February 2022 to now, by once)
- Reviewer, *IEICE Electronics Express*
(from December 2021 to now, by second)
- Reviewer, *Tomography*
(from October 2021 to now, by twice)
- Reviewer, *Advanced Intelligent Systems*
(from October 2021 to now, by once)
- Reviewer, *IPSJ Transactions on Consumer Devices & Systems*
(from October 2021 to now, by once)
- Reviewer, *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*
(from October 2021 to now, by three times)
- Reviewer, *Multimedia Systems (MMSJ)*
(from September 2021 to now, by six times)
- Reviewer, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*
(from June 2021 to now, by once)
- Reviewer, *IEEE Signal Processing Letters (SPL)*
(from May 2021 to now, by once)
- Reviewer, *Optical Review*
(from May 2021 to now, by three times)

- Reviewer, *IEEE Transactions on Electrical and Electronic Engineering* (from April 2021 to now, by once)
- Reviewer, *Signal, Image and Video Processing (SIVP)* (from April 2021 to now, by four times)
- Reviewer, *IEICE Transactions on Information and Systems* (from April 2021 to now, by three times)
- Reviewer, *Journal of the Society for Information Display (J. SID)* (from June 2020 to now, by twice)
- Reviewer, *Sensors (SENSC9)* (from February 2020 to now, by twice)
- Reviewer, *Journal of the Institute of Electrical Engineers of Japan C* (from October 2019 to now, by five times)
- Reviewer, *APSIPA Transactions on Signal and Information Processing* (from September 2019 to now, by once)
- Reviewer, *IEEE Journal on Emerging and Selected Topics in Circuits and Systems (IEEE JETCAS)* (from August 2019 to now, by once)
- Reviewer, *Electronics (ELECGJ)* (from July 2019 to now, by four times)
- Reviewer, *IEEE Journal of Biomedical and Health Informatics (JBHI-EMBS)* (from July 2019 to now, by eleventh times)
- Reviewer, *Multimedia Tools and Applications (MTAP)* (from March 2019 to now, by twenty one times)
- Reviewer, *Neurocomputing (NEUCOM)* (from February 2019 to now, by seven times)
- Reviewer, *Symmetry (SYMMAM)* (from January 2019 to now, by three times)
- Reviewer, *Applied Sciences (Applsci)* (from July 2018 to now, by ten times)
- Reviewer, *IEEE Access* (from July 2018 to now, by nineteen times)
- Reviewer, *Journal of Imaging (J. Imaging)* (from June 2018 to now, by three times)
- Reviewer, *IEEE Transactions on Circuits and Systems II: Express Briefs (TCAS-II)* (from February 2018 to now, by five times)
- Reviewer, *IEEE Transactions on Circuits and Systems I: Regular Papers (TCAS-I)* (from February 2018 to now, by four times)
- Reviewer, *Journal of Imaging Science and Technology (JIST)* (from February 2018 to now, by fifteen times)
- Reviewer, *IEEE Transactions on Medical Imaging (TMI)* (from January 2018 to now, by four times)
- Reviewer, *Signal Processing (SigPro)* (from January 2018 to now, by three times)

- Reviewer, *SPIE Journal of Electronic Imaging (JEI)*
(from December 2017 to now, by second)
- Reviewer, *IEEE Transactions on Image Processing (TIP)*
(from December 2017 to now, by twenty second)
- Reviewer, *EURASIP Journal on Image and Video Processing (JIVP)*
(from December 2017 to now, by three times)
- Reviewer, *IEEE Transactions on Multimedia (TMM)*
(from September 2017 to now, by thirty seven times)
- Reviewer, *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*
(from June 2017 to now, by thirty third)

11 Awards

- [1]. **“Certificate of Appreciation for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2023,”**
for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2023,
January 4, 2024.
- [2]. **“Certificate of Appreciation for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2018,”**
for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2018,
February 6, 2019.
- [3]. **“Elsevier Signal Processing Certificate of Outstanding Contribution in Reviewing,”**
in recognition of the contributions made to the quality of the journal in April 2018,
June 25, 2018.
- [4]. **“Certificate of Appreciation for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2017,”**
February 17, 2018.
- [5]. **“Forum on Information Technology (FIT2016) FIT Encouragement Award 2016,”**
Gofuku Campus, Univ. of Toyama (Presentation, Sept. 7, 2016),
September 9, 2016.
- [6]. **“IEICE Tokai Section Student Award (Doctor),”**
“A Study of the 3D CG Image Quality Metrics with 8 Viewpoints Parallax Barrier Method,”
Castle Plaza Nagoya,
June 3, 2015.

12 Achievement

12.1 Peer-reviewed Journal Papers

- “(Submitted),”
 - “(Submitted),”
 - “(Submitted),”
- [1]. **Norifumi Kawabata**, “Multi-view 3D CG Image Quality Evaluation Including Visible Digital Watermarking Based on RGB Color Information,” 9 pages (on final revision, Conditional Acceptance).
 - [2]. **Norifumi Kawabata**, “Statistical Analysis of Questionnaire Survey on the Assessment of 3D Video Clips,” *Displays*, Vol.71, 102110, January 2022.
 - [3]. **Norifumi Kawabata** and Masaru Miyao, “Multi-view 3D CG Image Quality Assessment for Contrast Enhancement Based on S-CIELAB Color Space,” *IEICE Transactions on Information and Systems*, Vol. E100-D, No. 07, pp. 1448–1462, July 2017.
 - [4]. **Norifumi Kawabata** and Yuukou Horita, “Statistical Analysis of Subjective Assessment for 3D CG Images with 8 Viewpoints Lenticular Lens Method,” *IIEEJ Transactions on Image Electronics and Visual Computing*, Vol. 4, No. 2, pp. 101–113, December 2016.
 - [5]. **Norifumi Kawabata** and Masaru Miyao, “3D CG Image Quality Metrics by Regions with 8 Viewpoints Parallax Barrier Method,” *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, Vol. E98-A, No. 08, pp. 1696–1708, August 2015.

12.2 Peer-reviewed International Conference Papers or Proceedings

- “(Submitted),”
 - “(Submitted),”
 - “(Submitted),”
- [6]. **Norifumi Kawabata**, “Evaluation of 3D CG Image Colorization Quality Using Visible Digital Watermarking after Noise Removal Based on Sparse Dictionary Learning,” *Proc. of The 39th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC2024)*, 6 pages, Okinawa Institute of Science and Technology Graduate University (OIST), Okinawa, Japan, July 2-5, 2024.
 - [7]. **Norifumi Kawabata**, “ROI Estimation of Laparoscopic Image Including Contrast Enhancement Based on Saliency Map,” *Proc. of The 27th International Workshop on Advanced Image Technology (IWAIT2024)*, 7A2 (Image/Video Compression), 6 pages, Parkroyal Langkawi Resort, Langkawi, Malaysia, January 7-8, 2024.
 - [8]. **Norifumi Kawabata**, “HEVC Subjective and Objective Image Quality Assessment Considering Cross Reality Based on 360 Degrees Camera,” *Proc. of The 30th International Display Workshops (IDW’23), Workshop on 3D/Hyper-Realistic Displays and Systems (Human Factor on Realistic Display)*, 3D2/3DSA2, pp.642–645, TOKI MESSE Niigata Convention Center, Niigata, Japan, December 6-8, 2023.
 - [9]. **Norifumi Kawabata** and Toshiya Nakaguchi, “Optimal Design of Color Laparoscopic Super-Resolution Image Quality Based on Generative Adversarial Networks,” *Proc. of The 2023 International Conference on Computer Graphics and Image Processing (CGIP 2023)*, S2-6, 7 pages, Takanawa Campus, Tokai Univ., Tokyo, Japan, January 13-16, 2023.
 - [10]. **Norifumi Kawabata**, “3D CG Image Region of Interest Estimation and Visual Attention Based on Saliency Map,” *Proc. of The 29th International Display Workshops (IDW’22), Workshop on Applied Vision and Human Factors (Image Quality)*, VHFp1-6L, pp.709–710, Fukuoka International Congress Center, Fukuoka, Japan (Hybrid), December 14-16, 2022.

- [11]. **Norifumi Kawabata**, “Data Set Production and Evaluation for Semantic Segmentation of 3D CG Images by H.265/HEVC,” *Proc. of The Eleventh International Workshop on Image Media Quality and its Applications (IMQA2022)*, pp.107–113, Online (Campus Plaza Kyoto, Kyoto, Japan), March 3-4, 2022.
- [12]. **Norifumi Kawabata**, “Visualization for Texture Analysis of the Shitsukan Research Database Based on Luminance Information,” *Image Quality and System Performance (IQSP XIX) (Electronic Imaging Symposium (EI2022))*, vol.19, IQSP-198, pp.1–6, Online (San Francisco, CA, USA), January 16-20, 2022.
- [13]. **Norifumi Kawabata** and Toshiya Nakaguchi, “Color Laparoscopic High-Definition Video Quality Assessment for Super-Resolution,” *Proc. of The 25th International Workshop on Advanced Image Technology (IWAIT2022)*, 7A5, pp.1–6, The Hong Kong Polytechnic Univ., Hong Kong (Hybrid), January 4-6, 2022.
- [14]. **Norifumi Kawabata**, “3D CG Image Noise Removal and Quality Assessment Based on Sparse Dictionary Learning,” *Proc. of The 2021 IEEE 3rd Global Conference on Life Sciences and Technologies (LifeTech 2021)*, OS-AIT1-3 (Advanced Image Technology in Applied Life Science: IoT & Deep Learning Perspectives), pp.225–226, Nara Royal Hotel, Nara, Japan (Hybrid), March 9-11, 2021.
- [15]. **Norifumi Kawabata** and Toshiya Nakaguchi, “Color Laparoscopic Image Region Segmentation after Contrast Enhancement Including SRCNN by Image Regions,” *Proc. of SPIE (The International Forum on Medical Imaging in Asia (IFMIA2021))*, no.85, 6 pages, National Taiwan Univ. of Science and Technology, Taiwan (Online), January 24-26, 2021.
- [16]. **Norifumi Kawabata** and Toshiya Nakaguchi, “Laparoscopic Image Region Segmentation Based on Texture Analysis by Regions,” *Proc. of The Tenth International Workshop on Image Media Quality and its Applications (IMQA2020)*, PS2-4, 6 pages, National Taiwan Univ. of Science and Technology, March 12-13, 2020.
- [17]. **Norifumi Kawabata** and Toshiya Nakaguchi, “Color Laparoscopic Image Diagnosis for Automatic Detection of Coded Defect Region,” *Proc. of The 5th Asia Color Association Conference (ACA2019 Nagoya)*, Vol. 5, P1-25, pp. 487–492, Meijo Univ., Nagoya, Japan, November 29–December 2, 2019.
- [18]. **Norifumi Kawabata**, “Computational Classification of Texture Contents in the Shitsukan Research Database,” *Proc. of The 26th International Display Workshops (IDW’19), Workshop on Applied Vision and Human Factors (Ergonomics for Display Applications II)*, Vol. 26, VHF7-3, pp. 1185–1188, Sapporo Convention Center, Sapporo, Japan, November 27-29, 2019.
- [19]. **Norifumi Kawabata**, “HEVC Image Quality Assessment of the Multi-view and Super-resolution Images Based on CNN,” *Proc. of 2018 IEEE 7th Global Conference on Consumer Electronics (GCCE 2018)*, POS1A-3, pp. 38–39, Nara Royal Hotel, Nara, Japan, October 9-12, 2018.
- [20]. **Norifumi Kawabata**, “Image Diagnosis for Coded Defect Detection on Multi-view 3D Images,” *Proc. of The Ninth International Workshop on Image Media Quality and its Applications (IMQA2018)*, PS-10, pp. 110–119, Kobe Univ., Kobe, Japan, September 27-28, 2018.
- [21]. **Norifumi Kawabata**, “Multi-view 3D CG Image Quality Evaluation and Analysis for Application Procedure between H.265/HEVC and Watermarking,” *Proc. of The 21st International Workshop on Advanced Image Technology (IWAIT2018)*, D3-3, 4 pages, The Imperial Mae Ping Hotel, Chiang Mai, Thailand, January 7-9, 2018 (Traveling Abroad Travel Expenses Assistance in the Telecommunications Advancement Foundation).
- [22]. **Norifumi Kawabata**, “Image Quality Assessment for Multi-view 3D CG Images and 5K High Definition Images Based on S-CIELAB Color Space,” *Proc. of The 24th International Display Workshops (IDW’17), Workshop on 3D/Hyper-Realistic Displays and Systems (Autostereoscopic Display)*, Vol. 24, 3D5-1, pp. 849–852, Sendai International Center, Sendai, Japan, December 6-8, 2017.
- [23]. **Norifumi Kawabata** and Masaru Miyao, “Multi-view 3D CG Image Quality Assessment for Contrast Enhancement Including S-CIELAB Color Space in case the Background Region is Gray Scale,” *Proc. of The 31st International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC2016)*, T2-6-3, pp. 579–582, Municipal Center (Jichikaikan), Okinawa, Japan, July 10-13, 2016 (ITE (The Institute of Image Information and Television Engineers) International Conference Support Grant).

- [24]. **Norifumi Kawabata** and Masaru Miyao, “**Multi-view 3D CG Image Quality Evaluation Including Visible Digital Watermarking Based on Color Information,**” *Proc. of The Eighth International Workshop on Image Media Quality and its Applications (IMQA2016)*, OS1-3, pp. 18–26, Noyori Conference Hall, Higashiyama Campus, Nagoya Univ., Nagoya, Japan, March 10-11, 2016.
- [25]. **Norifumi Kawabata** and Masaru Miyao, “**3D CG Image Quality Assessment for the Luminance Change by Contrast Enhancement Including S-CIELAB Color Space with 8 Viewpoints Parallax Barrier Method,**” *Proc. of The 1st International Conference on Advanced Imaging (1st ICAI2015)*, T107-01, pp. 632–635, National Center of Science (Hitotsubashi Memorial Hall), Tokyo, Japan, June 17-19, 2015.
- [26]. **Norifumi Kawabata**, Masaru Miyao, and Yuukou Horita, “**3D CG Image Quality Metrics Including the Coded Degradation by Regions with 8 Viewpoints Parallax Barrier Method,**” *Proc. of The Seventh International Workshop on Image Media Quality and its Applications (IMQA2014)*, PS-9, pp. 102–105, Keyaki Hall, Nishi Chiba Campus, Chiba Univ., Chiba, Japan, September 2-3, 2014.
- [27]. **Norifumi Kawabata** and Yuukou Horita, “**Statistical Analysis and Consideration of Subjective Evaluation of 3D CG Images with 8 Viewpoints Lenticular Lens Method,**” *Proc. of The Sixth International Workshop on Image Media Quality and its Applications (IMQA2013)*, T1-2, pp. 23–32, Takanawa Campus, Tokai Univ., Tokyo, Japan, September 12-13, 2013.
- [28]. **Norifumi Kawabata**, Keiji Shibata, Yasuhiro Inazumi, and Yuukou Horita, “**Image Quality Evaluation of 3D CG Images with 8 Viewpoints Lenticular Lens Method,**” *Proc. of The Fifth International Workshop on Image Media Quality and its Applications (IMQA2011)*, D-10, pp. 88–90, Campus Plaza Kyoto, Kyoto, Japan, October 4-5, 2011.

12.3 Technical Reports

- [29]. **Norifumi Kawabata** and Masaru Miyao, “**Multi-view 3D CG Image Quality Assessment by Using S-CIELAB Color Space Including Visible Digital Watermarking by Regions in case the Background Region is Gray Scale,**” *IEICE Tech. Rep., Image Media Quality*, vol.116, no.68, IMQ2016-1, pp.1–6, Nishi-Chiba Campus, Chiba Univ., May 2016.
- [30]. **Norifumi Kawabata** and Masaru Miyao, “**3D CG Image Quality Metrics for the Contrast Enhancement of the Object Region Including S-CIELAB Color Space with 8 Viewpoints Parallax Barrier Method,**” *IEICE Tech. Rep., Image Media Quality*, vol.115, no.48, IMQ2015-4, pp.17–22, Gofuku Campus, Univ. of Toyama, May 2015.

12.4 Dissertation

- [31]. **Norifumi Kawabata**, “**A Study of the Multi-view 3D CG Image Quality Assessment Including the Image Characteristics,**” Doctor Dissertation, Department of Information Engineering, Graduate School of Information Science, Nagoya University, January 2017.