

# Curriculum Vitae

Dr. Norifumi KAWABATA

Assistant Professor  
Emerging Media Initiative, Kanazawa University

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## 1 Affiliation

Assistant Professor, Emerging Media Initiative, Kanazawa University, Kanazawa-shi, 920-1192 Japan  
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Personal Webpage: <https://en.norifumik.nagoya>  
Workspace Webpage: <https://www.emi.kanazawa-u.ac.jp>

## 2 Academic & Professional Experience

- April 2025 – present  
Assistant Professor, Emerging Media Initiative, **Kanazawa University**
- May 2024 – March 2025  
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

- April 2025 – present  
**Assistant Professor**,  
Emerging Media Initiative, Kanazawa University  
Education and Research on Signal and Media Processing Based on Computer Science.
- May 2024 – March 2025  
**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, *IPSJ Journal*  
(from June 2025, by once)
- Reviewer, *ISPRS International Journal of Geo-Information (ijgi)*  
(from June 2025, by once)
- Reviewer, *Circuits, Systems, and Signal Processing (CSSP)*  
(from June 2025, by once)
- Reviewer, *Journal of Perceptual Imaging (JPI)*  
(from June 2025, by once)
- Reviewer, *The 19th Machine Vision Applications (MVA 2025)*  
(from April 2025 to July 2025, by fourth times)
- Reviewer, *IoT*  
(from February 2025, by once)
- Reviewer, *Frontiers of Computer Science*  
(from December 2024, by once)
- Reviewer, *Biomimetics*  
(from October 2024, by once)
- Reviewer, *IEEE Sensors Letters*  
(from September 2024, by once)
- Reviewer, *The 31st International Conference on Multimedia Modeling (MMM 2025)*  
(from August 2024 to January 2025, by Seven times)
- Reviewer, *International Journal of Imaging Systems and Technology*  
(from August 2024, by once)
- Reviewer, *IEEE Transactions on Geoscience and Remote Sensing*  
(from July 2024, by once)
- Reviewer, *2024 IEEE International Conference on Visual Communications and Image Processing (VCIP2024)*  
(from July 2024 to December 2024, by five times)
- 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, *IEEJ 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 five 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 twenty three 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 sixteen 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 three times)
- Reviewer, *IEEE Transactions on Image Processing* (**TIP**)  
(from December 2017 to now, by twenty third)
- 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 forty first)
- Reviewer, *IEEE Transactions on Circuits and Systems for Video Technology* (**TCSVT**)  
(from June 2017 to now, by thirty eight times)

## 11 Awards

- [1]. **“The international society for optics and photonics, SPIE Journal of Electronic Imaging, Certificate of Appreciation,”**  
for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2024,  
January 7, 2025.
- [2]. **“The international society for optics and photonics, SPIE Journal of Electronic Imaging, Certificate of Appreciation,”**  
for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2023,  
January 4, 2024.
- [3]. **“The international society for optics and photonics, SPIE Journal of Electronic Imaging, Certificate of Appreciation,”**  
for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2018,  
February 6, 2019.
- [4]. **“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.
- [5]. **“Certificate of Appreciation for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2017,”**  
February 17, 2018.
- [6]. **“Forum on Information Technology (FIT2016) FIT Encouragement Award 2016,”**  
Gofuku Campus, Univ. of Toyama (Presentation, Sept. 7, 2016),  
September 9, 2016.
- [7]. **“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,”** *IEEE 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),”
- [6]. **Norifumi Kawabata**, “3D CG Image Quality Assessment in Vision and Language Based on Stable Diffusion,” *Image Quality and System Performance (IQSP XXII) (Electronic Imaging Symposium (EI2025))*, vol.22, IQSP-243, 5 pages, February 2025.
- [7]. **Norifumi Kawabata**, “Image Quality Metrics for Cross Reality Considering Image Region and Perspective Based on 360 Degrees Camera,” *Proc. of The 31st International Display Workshops (IDW’24), Workshop on 3D/Hyper-Realistic Displays and Systems, (Emerging Technologies for 3D/Hyper-Realistic Display)*, 3Dp2-7, pp.806–809, Sapporo Convention Center, Sapporo, Japan, December 4-6, 2024.
- [8]. **Norifumi Kawabata**, “HEVC Image Evaluation and Analysis between Contrast and Rotation Based on Material Data Set of the Shitsukan Perception Standard Problem,” *Proc. of 2024 IEEE 13th Global Conference on Consumer Electronics (GCCE 2024)*, POS3B-23, 2 pages, Asia Pacific Import Mart (AIM) Medium Exhibition Hall, Kokura, Japan, October 29 – November 1, 2024.
- [9]. **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)*, POSIII-21, 6 pages, Okinawa Institute of Science and Technology Graduate University (OIST), Okinawa, Japan, July 2-5, 2024.
- [10]. **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.
- [11]. **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.
- [12]. **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.
- [13]. **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.
- [14]. **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.
- [15]. **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.
- [16]. **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.
- [17]. **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.

- [18]. **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.
- [19]. **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.
- [20]. **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.
- [21]. **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.
- [22]. **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.
- [23]. **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.
- [24]. **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).
- [25]. **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.
- [26]. **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).
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