Curriculum Vitae

Dr. Norifumi KAWABATA

Research Collaborator
Emerging Media Initiative, Kanazawa University

November 2, 2026

1 Affiliation

Research Collaborator, Emerging Media Initiative, Kanazawa University, Kanazawa-shi, 920–1192 Japan
Principal Investigator, Computational Imaging Lab, Kanazawa, Japan
mailto: norifumi [AT] staff [DOT] kanazawa-u [DOT] ac [DOT] jp
Personal Webpage: `https://en.norifumik.nagoya`
Workspace Webpage: `https://www.emi.kanazawa-u.ac.jp`

2 Academic & Professional Experience

- April 2026 – 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 2026 – present
  Research Collaborator, Emerging Media Initiative, **Kanazawa University**
- April 2025 – March 2026
  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
  Seiryo 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 2026 – 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 2026 – present
  Research Collaborator,
  Emerging Media Initiative, Kanazawa University
  A Study on the Construction of a Digital Archive of Historical Materials and Secure Utilization Technologies to Support Museum Digital Transformation.
- April 2025 – March 2026
  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 (August 1999)
- Calculation on the Abacus Test Semi-first Step Grade (November 2000)
- Calligraphy First Step Grade (February 2003)
- The EIKEN Test in Practical English Proficiency Grade 2 (November 2006)
- Car Driver License for Standard Vehicle (August 2008)
- High School Teacher Class 1 License (Industrial) (March 2011)
- High School Teacher Specialized License (Industrial) (March 2013)
- TOEIC 620 (June 2015, October 2016)
- IT Passport (DX promotion passport 1) (August 2025)
- JDLA Deep Learning for GENERAL (DX promotion passport 2) (November 2025)
- CG-ARTS Certification Multimedia Certification Basic (December 2025)
- CG-ARTS Certification Image Processing Engineer Certification Basic (August 2026)

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 International Conference Attendance

[1]. The 21st International Workshop on Advanced Image Technology (IWAIT2018), The Imperial Mae Ping Hotel, Chiang Mai, Thailand, January 7-9, 2018.

[2]. The 27th International Workshop on Advanced Image Technology (IWAIT2024), Parkroyal Langkawi Resort, Langkawi, Malaysia, January 7-8, 2024.

[3]. Electronic Imaging 2025 (EI2025), Hyatt Regency San Francisco Airport, Burlingame, CA USA, February 2025.

[4]. The 33rd Color and Imaging Conference (CIC33), Hong Kong Science Park, Hong Kong, October 2025.

[5]. The 29th International Workshop on Advanced Image Technology (IWAIT2026), Howard Plaza Hotel Kaohsiung, Kaohsiung, Taiwan, January 2026.

[6]. Electronic Imaging 2026 (EI2026), Hyatt Regency San Francisco Airport, Burlingame, CA USA, March 2026.

[7]. The 41st International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC2026), Royal Orchid Sheraton Riverside Hotel Bangkok, Bangkok, Thailand, July 2026.

[8]. Computational Color Imaging Workshop Satellite workshop within ICIP2026, The 33rd IEEE International Conference on Image Processing, Tampere Hall, Tampere, Finland, September 2026.

[9]. The 9th Asia Color Association Conference (ACA2026), Taipei City, Taiwan, November 2026 (to appear).

10 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

11 Affiliated Society, Contribution to Society

11.1 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 (IIEEJ)
  (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)
- The Japan Data Scientist Society
  (Member, from June 2025)
- The Institute of Electrical Engineers of Japan
  (Member, from September 2025)
- The Color Science Association of Japan
  (Member, from February 2026)

11.2 Committee Experience

- Panel of judges, *R.8 IEICE Hokuriku Section Excellent Student Paper Award* (September 2026 – September 2026)
- Session Chair, *Joint Conference of Hokuriku Chapters of Electrical and Information Societies 2026* (**JHES2026**) (September 2026 – September 2026)
- Technical Program Committee Member, *The 33rd International Conference on MultiMedia Modeling* (**MMM 2027**) (July 2026 – present)
- Publicity Chair, *2026 9th International Conference on Blockchain Technology and Applications* (**ICBTA2026**) (July 2026 – present)

- Technical Committee, *2026 9th International Conference on Blockchain Technology and Applications* (**ICBTA2026**) (July 2026 – present)
- Councilor, Japan Society of Computer Aided Surgery (JSCAS) (two term, November 2025 – present)
- Technical Programme Member, The 32nd International Conference on Multimedia Modeling (**MMM 2026**) (August 2025 – present)
- Session Chair, *2025 8th International Conference on Blockchain Technology and Applications* (**ICBTA2025**) (December 2025 – December 2025)
- Technical Committee, *2025 8th International Conference on Blockchain Technology and Applications* (**ICBTA2025**) (November 2025 – December 2025)
- Technical Programme Member, The 31st International Conference on Multimedia Modeling (**MMM 2025**) (August 2024 – January 2025)
- Councilor, Japan Society of Computer Aided Surgery (JSCAS) (one term, December 2023 – November 2025)
- 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)

11.3 Review Experience

- Reviewer, *The 33rd International Conference on MultiMedia Modeling* (MMM 2027)
  (from September 2026, by twice)
- Reviewer, *Expert Systems With Applications*
  (from August 2026, by once)
- Reviewer, *2026 IEEE International Conference on Visual Communications and Image Processing* (**VCIP2026**)
  (from July 2026, by three times)
- Reviewer, *APSIPA Annual Summit and Conference 2026* (**APSIPA ASC 2026**)
  (from July 2026, by five times)
- Reviewer, *Digital Signal Processing* (**DSP**)
  (from June 2026, by once)
- Reviewer, *The 34th Color and Imaging Conference* (**CIC34**)
  (from May 2026, by four times)
- Reviewer, *IEEE Open Journal of Signal Processing*
  (from March 2026, by once)
- Reviewer, *IEEE Transactions on Signal Processing* (SP)
  (from January 2026, by once)
- Reviewer, *International Journal of Computer Assisted Radiology and Surgery* (IJCARS)
  (from January 2026, by once)

- Reviewer, *2025 8th International Conference on Blockchain Technology and Applications* (**ICBTA2025**)
  (from November 2025 to December 2025, by twice)
- Reviewer, *2025 IEEE International Conference on Visual Communications and Image Processing* (**VCIP2025**)
  (from July 2025 to December 2025, by five times)
- Reviewer, *Circuits, Systems, and Signal Processing* (CSSP)
  (from October 2025, by once)
- Reviewer, *IPSJ Journal*
  (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 three times)
- 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 Artificial Intelligence* (**TAI**)
  (from September 2023 to now, by once)
- Reviewer, *Computers in Biology and Medicine* (**CBM**)
  (from September 2023 to now, by second)
- 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 second)
- Reviewer, *IEICE Electronics Express*
  (from December 2021 to now, by three times)
- 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 four 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 second)
- Reviewer, *IEEE Signal Processing Letters* (**SPL**)
  (from May 2021 to now, by second)
- Reviewer, *Optical Review*
  (from May 2021 to now, by five 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 four 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 seven 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 twelfth 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 eleventh times)
- Reviewer, *IEEE Access*
  (from July 2018 to now, by twenty five 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 seventeen times)
- Reviewer, *IEEE Transactions on Medical Imaging* (**TMI**)
  (from January 2018 to now, by five 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 four 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 four 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 nine times)

12 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 2025,
February 10, 2026.

[2]. **"2025 8th International Conference on Blockchain Technology and Applications (ICBTA2025) Certificate of Appreciation,"**
For his achievements in chairing the following session: Onsite Session I: Data Privacy and Information Security Protection Mechanisms,
December 12-14, 2025.

[3]. **"2024 TPAMI Reviewer Certificate, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI),"**
This certificate is awarded in recognition of the recipient's efforts as a peer reviewer.
September 26, 2025.

[4]. **"2024 TDSC Reviewer Certificate, IEEE Transactions on Dependable and Secure Computing (TDSC),"**
This certificate is awarded in recognition of the recipient's efforts as a peer reviewer.
September 26, 2025.

[5]. **"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.

[6]. **"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.

[7]. **"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.

[8]. **"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.

[9]. **"Certificate of Appreciation for serving as a reviewer for Journal of Electronic Imaging during the calendar year of 2017,"**
February 17, 2018.

[10]. **"Forum on Information Technology (FIT2016) FIT Encouragement Award 2016,"**
Gofuku Campus, Univ. of Toyama (Presentation, Sept. 7, 2016),
September 9, 2016.

[11]. **"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.

13 Achievement

13.1 Peer-reviewed Journal Papers

[1]. **Norifumi Kawabata**, **"Statistical Analysis of Questionnaire Survey on the Assessment of 3D Video Clips,"** *Displays*, Vol.71, 102110, January 2022.

[2]. **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.

[3]. **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.

[4]. **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.

13.2 Peer-reviewed International Conference Papers or Proceedings

[5]. **Norifumi Kawabata**, **"Zero-Shot Semantic Segmentation for 3D CG Images Utilizing Vision-Language Pretraining and Depth Estimation,"** *Proc. of The 30th International Workshop on Advanced Image Technology* **(IWAIT2027)**, Ewha Womans University, Seoul, South Korea, January 2027 (Accepted).

[6]. **Norifumi Kawabata**, **"Simulation and Analysis of Point Cloud Data for Autonomous Driving Localization,"** *Proc. of The 33rd International Display Workshops* **(IDW'26)**, IST3-4/VHF4-4, *AI Based Image Processing*, 4 pages, ACT CITY Hamamatsu, Hamamatsu, Japan, December 2026 (to appear).

[7]. **Norifumi Kawabata**, **"Quantitative Evaluation of Spatial and Color Reproduction in 3D Gaussian Splatting Using S-CIELAB Color Space,"** *Proc. of The 9th Asia Color Association Conference* (**ACA2026 Taipei**), 6 pages, Taipei City, Taiwan, November 2026 (to appear).

[8]. **Norifumi Kawabata**, **"An Improved Biological Signal Processing and Data Cleaning Approach for EEG Database Analysis,"** *Proc. of 2026 IEEE 15th Global Conference on Consumer Electronics* **(GCCE 2026)**, OS-DSC(3)-2, *Data Science & Its Application to Consumer Technology*, pp.517–518, Kobe International Conference Center, Kobe, Japan, October 2026.

[9]. **Norifumi Kawabata**, **"Evaluating Total Variation Regularization for Denoising in Color Laparoscopic Imaging,"** *Computational Color Imaging Workshop Satellite workshop (***CCIW2026)** *within (***ICIP2026)**, IEEE International Conference on Image Processing*, 6 pages, Tampere Hall, Tampere, Finland, September 2026.

[10]. **Norifumi Kawabata**, **"A Study on Wavelet Multi-Resolution Analysis of Laparoscopic Image around Contrast Enhancement,"** *Proc. of The 41st International Technical Conference on Circuits/Systems, Computers and Communications* (**ITC-CSCC2026**), Comp.1-4, 6 pages, Royal Orchid Sheraton Riverside Hotel Bangkok, Bangkok, Thailand, July 2026.

[11]. **Norifumi Kawabata**, **"3D CG Object Image Quality Assessment and Analysis for Glossy and Painted Based on Material Data Set of the Shitsukan Perception Standard Problem,"** *Image Quality and System Performance* (**IQSP XXIII**) (*Electronic Imaging Symposium* (**EI2026**)), vol.23, IQSP-259, 6 pages, Hyatt Regency San Francisco Airport, Burlingame, CA USA, March 2026.

[12]. **Norifumi Kawabata**, **"Discussion on Introduction of Quantum Information and Computational Science in the Image Data Compression Procedure of 360 Degrees Camera,"** *Proc. of The 29th International Workshop on Advanced Image Technology* **(IWAIT2026)**, 6 pages, Howard Plaza Hotel Kaohsiung, Kaohsiung, Taiwan, February 2026.

[13]. **Norifumi Kawabata**, **"Subjective Quality Assessment for Cross Reality of 3D CG Projected Video on a Holographic Display Prototype,"** *Proc. of The 32nd International Display Workshops* **(IDW'25)**, *Workshop on 3D/Hyper-Realistic Displays and Systems (3D), Cognitive Science of 3D Systems, Special Topics of Automotive Displays*, 3D3/VHF2, pp.812–815, International Conference Center Hiroshima, Hiroshima, Japan, December 2025.

[14]. **Norifumi Kawabata**, **"3D CG HEVC Images Attention Mechanism Based on Vision Transformer,"** *Proc. of The 33rd Color and Imaging Conference* (**CIC33**), P-13, 6 pages, Hong Kong Science Park, Hong Kong, October 2025.

[15]. **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, Hyatt Regency San Francisco Airport, Burlingame, CA USA, February 2025.

[16]. **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.

[17]. **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.

[18]. **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.

[19]. **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 **(Traveling Abroad Travel Expenses Assistance in the Telecommunications Advancement Foundation)**.

[20]. **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.

[21]. **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.

[22]. **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.

[23]. **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.

[24]. **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.

[25]. **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.

[26]. **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.

[27]. **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.

[28]. **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.

[29]. **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.

[30]. **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.

[31]. **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.

[32]. **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.

[33]. **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)**.

[34]. **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.

[35]. **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)**.

[36]. **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.

[37]. **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.

[38]. **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.

[39]. **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.

[40]. **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.

13.3 Technical Reports

[41]. 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.

[42]. 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.

13.4 Invited Talks

[43]. Norifumi Kawabata, **"A Study on 3D CG Image Quality Assessment Based on Visible Digital Watermarking for Advanced Information Security,"**, *2025 8th International Conference on Blockchain Technology and Applications* (**ICBTA2025**), *Data Privacy and Information Security Protection Mechanisms*, The Kanazawa Theatre, Kanazawa, Ishikawa, Japan, December 2025 (Invited).

13.5 Dissertation

[44]. 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.