

ALICE PLUTINO



E-mail: a.plutino@uva.nl // alice.plutino@unimi.it

Address: Via Monte Cervino, 2 Dormelletto 28040 (Italy)

LinkedIn: [linkedin.com/in/alice-plutino-377677136](https://www.linkedin.com/in/alice-plutino-377677136)

ResearchGate: researchgate.net/profile/Alice_Plutino

ORCID: 0000-0002-6749-0783

IRIS: rp50606

PROFILE

Alice Plutino (Phd, Università degli Studi di Milano, 2021) is MSCA Postdoctoral Fellow at the Faculty of Media Studies of the University of Amsterdam. Her research interests are Color Science, Colorimetry, Image Enhancement, Image Digitization, and Archiving, with a particular interest in Cultural Heritage applications. She is the author of the book "*Tecniche di Restauro Cinematografico*" and of several journal and conference papers of national and international relevance. She is an Adjunct Professor at Università degli Studi di Milano and Centro Sperimentale di Cinematografia, teaching digital film restoration and digital media conservation. She is a member of the Italian color group (Gruppo del Colore), deputy editor of the Color Culture and Science Journal (CCSJ), vice-coordinator of Division 1, and coordinator of Division 8 of NC CIE Italy.

PROFESSIONAL EXPERIENCE

01/09/2023 – TODAY

MARIE CURIE POST-DOCTORAL FELLOW (MSCA-PF), Amsterdam School of Cultural Analysis, Universiteit van Amsterdam (Amsterdam)

Project: Democratising REsearch and restoration of Audiovisual Media and Film (DREAM-Film): practices and methods to improve the accessibility to restoration and promote competency exchange

Website: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/org-details/999999999/project/101105533/program/43108390/details>

03/04/2024 – 30/10/2024

TEACHER, Fondazione Centro Sperimentale di Cinematografia (Roma)

Course: Conservazione dei supporti elettronici e digitali (Conservation of electronic and digital devices)

Website: <https://www.fondazioneccsc.it/corso/corso-di-conservazione-e-management-del-patrimonio-audiovisivo/>

03/04/2024 – 30/10/2024	<p>TEACHER, Fondazione Centro Sperimentale di Cinematografia (Roma)</p> <p>Course: Storia, Tecnica e Restauro del Colore nei Reperti Audiovisivi (History and restoration of color film processes)</p> <p>Website: https://www.fondazioneccsc.it/corso/corso-di-conservazione-e-management-del-patrimonio-audiovisivo/</p>
01/05/2021 – 31/08/2023	<p>POST-DOCTORAL FELLOW, Department of Computer Science, Università degli Studi di Milano (Milano)</p> <p>Project: Frame-Q: a novel framework for video restoration and quality assessment</p> <p>Website: http://www.di.unimi.it/ecm/home/persone/assegnisti-e-borsisti</p>
13/02/2023 – 30/07/2023	<p>TEACHER, Fondazione Centro Sperimentale di Cinematografia (Roma)</p> <p>Course: Conservazione dei supporti elettronici e digitali (Conservation of electronic and digital devices)</p> <p>Website: https://www.fondazioneccsc.it/corso/corso-di-conservazione-e-management-del-patrimonio-audiovisivo/</p>
07/11/2022 – 30/12/2022	<p>TEACHER, Fondazione Centro Sperimentale di Cinematografia (Roma)</p> <p>Course: Conservazione dei supporti elettronici e digitali (Conservation of electronic and digital devices)</p> <p>Website: https://www.fondazioneccsc.it/corso/corso-di-conservazione-e-management-del-patrimonio-audiovisivo/</p>
01/03/2021 – 30/09/2022	<p>ADJUNCT PROFESSOR, Department of Earth Sciences, Università degli Studi di Milano (Milano)</p> <p>Course: Metodologie e tecniche per il restauro cinematografico (Movie Restoration)</p> <p>Website: https://www.unimi.it/it/ugov/person/alice-plutino</p>
01/01/2022 – 30/06/2022	<p>TEACHER, Poliestetico (Milano)</p> <p>Courses: Fisiologia dei sensi (Physiology of the senses) and Anatomia (Anatomy)</p> <p>Project: Progetto di istruzione e formazione tecnica superiore (IFTS)</p> <p>Website: https://milano.poliestetico.com/tecnico-del-colore-nellindustria-cosmetica/</p>
01/03/2022 – 30/03/2022	<p>TEACHER, Fondazione Luigi Clerici (Milano)</p> <p>Course: Grafica per la comunicazione multicanale (Graphic communication)</p> <p>Project: Progetto di istruzione e formazione tecnica superiore (IFTS)</p> <p>Website: https://www.clerici.lombardia.it/2.0/Page/Percorsi-IFTS</p>
07/02/2022 – 30/02/2022	<p>TEACHER, Fondazione Centro Sperimentale di Cinematografia (Roma)</p> <p>Course: Workflow del restauro audiovisivo (Audiovisual restoration workflow)</p>

Website: <https://www.fondazioneecsc.it/corso/corso-di-conservazione-e-management-del-patrimonio-audiovisivo/>

23/02/2021 – 31/07/2021

TEACHER, Fondazione Luigi Clerici (Milano)

Course: Grafica per la comunicazione multicanale (Graphic communication)

Project: Progetto di istruzione e formazione tecnica superiore (IFTS)

Website: <https://www.clerici.lombardia.it/2.0/Page/IFTS-2020-2021>

01/02/2021 – 18/06/2021

TEACHER, Fondazione Centro Sperimentale di Cinematografia (Roma)

Course: Storia, tecnica e restauro del colore nei reperti audiovisivi (History and color restoration in audiovisual media)

Website: <https://www.fondazioneecsc.it/corso/corso-di-conservazione-e-management-del-patrimonio-audiovisivo/>

08/02/2021 – 31/03/2021

TUTOR, Department of Earth Sciences, Università degli Studi di Milano (Milano)

Course: Colorimetria e gestione del colore per i beni culturali (Colorimetry and Color Management for Cultural Heritage)

Head of the Course: Prof. Alessandro Rizzi

Website: <https://www.unimi.it/en/education/degree-programme-courses/2020/colorimetry-and-color-management-cultural-heritage>

01/10/2017 – 22/03/2021

PHD IN COMPUTER SCIENCE, Department of Computer Science, Università degli Studi di Milano (Milano)

Field of research: Colorimetry, Image enhancement, Image Quality Metrics.

Thesis Title: Novel approaches in color measuring, rendering and controlling for cultural heritage

Supervisor: Prof. Alessandro Rizzi

01/12/2020 – 31/01/2021

TEACHER, Fondazione Centro Sperimentale di Cinematografia (Roma)

Course: Conservazione dei supporti elettronici e digitali – Part II (Conservation of electronic and digital devices – part II)

Website: <https://www.fondazioneecsc.it/corso/corso-di-conservazione-e-management-del-patrimonio-audiovisivo/>

01/04/2020 – 30/06/2020

TUTOR, Department of Earth Sciences, Università degli Studi di Milano (Milano)

Course: Metodologie e tecniche per il restauro cinematografico (Movie Restoration)

Head of the Course: Prof. Alessandro Rizzi

Website: <http://www.tecnobenicult.unimi.it/it/index.html>

01/03/2019 – 30/06/2019	TUTOR Department of Earth Sciences, Università degli Studi di Milano (Milano) Course: Metodologie e tecniche per il restauro cinematografico (Movie Restoration) Head of the Course: Prof. Alessandro Rizzi Website: http://www.tecnobenicult.unimi.it/it/index.html
01/08/2018 – 30/09/2019	TUTOR, POLL.Design, Politecnico di Milano (Milano) Course: Master in “Color Design and Technology” – 3 rd Edition Website: https://www.polidesign.net/it/colordesign

EDUCATION

22/03/2021	PHD IN COMPUTER SCIENCE, Department of Computer Science, Università degli Studi di Milano (Milano) Field of research: Colorimetry, Image enhancement, Image Quality Metrics. Thesis Title: Novel approaches in color measuring, rendering and controlling for cultural heritage Supervisor: Prof. Alessandro Rizzi
24/10/2017	MASTER DEGREE, Department of Earth Sciences, Università degli Studi di Milano (Milano) Course: Scienze per la conservazione e la diagnostica dei beni culturali (Conservation Sciences, LM-11) Final Mark: 110/110 magna cum laude
08/10/2015	BACHELOR DEGREE, Department of Earth Sciences, Università degli Studi di Milano (Milano) Course: Scienze e tecnologie per lo studio e la conservazione dei beni culturali e dei supporti dell'informazione (Conservation Sciences, L – 43) Final Mark: 108/110

SKILLS

FOREIGN LANGUAGES

ENGLISH	Good knowledge. Level B2. Certificate: TOEIC (august 2017)
----------------	---

Listening and Reading: 905
Speaking and Writing: 310

FRENCH Good knowledge. Level B1.

GERMAN Basic knowledge. Level A1.

RESEARCH PROJECTS

Role	Financier	Project Title	Duration	Budget
Principal Investigator	HORIZON-MSCA-2022-PF-01	Democratising REsearch and restoration of Audiovisual Media and Film (DREAM-Film): practices and methods to improve the accessibility to restoration and promote competency exchange. Agreement No 101105533. Website: https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/org-details/999999999/project/101105533/program/43108390/details	September 2023 – February 2025	140,718 EUR
Partner	U.S. Ambassador found for Cultural preservation (Bosnia-Herzegovina)	Preserving BiH Film Heritage For Future Generations	2022 - 2023	50'000 EUR
Partner	Comitato per la Ricerca Sanitaria Militare (CORISAMIL)	Screening del daltonismo in profili operativi complessi del volo militare: studio e analisi di nuove metodologie di diagnostica alternativa	2021 - 2022	45'000 EUR
Partner	UniMi – SEED project	CHROMA – chromatic properties of subaerial biofilms as potential indicators of stone heritage decay	2019-2021	30'000 EUR

AWARDS

HORIZON-MSCA-2022-PF-01 Grant, Project Title “Democratising REsearch and restoration of Audiovisual Media and Film (DREAM-Film): practices and methods to improve the accessibility to restoration and promote competency exchange”, Agreement No 101105533.

Best PhD Thesis Award 2022 by AIES - Beni Culturali, received during the XIII AIES International Congress, 14th-16th December 2021.

PUBLICATIONS

MONOGRAPHS

Alice Plutino, “*Tecniche di Restauro Cinematografico – Metodi e Pratiche tra Analogico e Digitale*”, Manuali n. 244, Dino Audino Editore, ISBN: 9788875274672, 2020.

EDITED BOOKS

Alice Plutino, Alessandro Rizzi and Gabriele Simone, “*Color Design & Technology A Multidisciplinary Approach to Colour Part 1*”, Series: Research culture and science books, Online (OpenAccess), ISSN: 2785-115X, ISBN-13: 978-88-99513-14-6, Date of first publication: 19-09-2021, DOI: 10.23738/RCASB.002

Alice Plutino, Alessandro Rizzi and Gabriele Simone, “*Color Design & Technology A Multidisciplinary Approach to Colour Part 2*”, Series: Research culture and science books, Online (OpenAccess), ISSN: 2785-115X, ISBN-13: 978-88-99513-19-1, Date of first publication: 10-05-2022, DOI: 10.23738/RCASB.005

Alice Plutino, Alessandro Rizzi and Gabriele Simone, “*Color Design & Technology A Multidisciplinary Approach to Colour Part 3*”, Series: Research culture and science books, Online (OpenAccess), ISSN: 2785-115X, ISBN-13: 978-88-99513-17-7, Date of first publication: 10-05-2022, DOI: 10.23738/RCASB.004

PEER-REVIEWED SCIENTIFIC JOURNALS

Plutino A., Bagnati M. and Rizzi A., “Camera Dynamic Range Measurement: The Role of Lenses and Target Spatial Distribution” (OpenAccess), *IEEE Transactions on Instrumentation and Measurement* (Volume: 73), 2024, DOI: 10.1109/TIM.2024.3400303

Longoni M., Scipioni S., Plutino A., Sarti B., Rizzi A. and Bruni S., “Chromogenic dyes in motion picture films at the turn of the 20th and 21st centuries: a multi-technique comparative study“, *Microchemical Journal* (199), 2024, DOI:10.1016/j.microc.2024.110120

Flaviani G., Plutino A. and Rizzi, A., “Colour and emotion: the use of the colours of Lüscher test in the artistic field” (OpenAccess), *Cultura e Scienza del Colore - Color Culture and Science*, 15(02), pp. 30–38, 2023 DOI: 10.23738/CCSJ.150204.

Plutino A., Armellin L., Mazzoni A., Marcucci R., and Rizzi A., “Aging variations in Ishihara test plates”, (OpenAccess) *Color Research & Application*, 2023, DOI:10.1002/col.22877.

Plutino A. and Tarini M., "Fast ACE (FACE): an error-bounded approximation of Automatic Color Equalization", (OpenAccess) *IEEE Transactions on Image Processing*, DOI: 10.1109/TIP.2023.3270770.

Plutino A., Armellin L., Eschbach R., Mazzoni A., Marcucci R., Rizzi A., "Testing the role of vision spatial processing in color deficiency", (Open Access) in *Electronic Imaging*, 2023, pp 185-1 - 185-6, DOI: 10.2352/EI.2023.35.15.COLOR-185

- Sarti B., Plutino A. and Rizzi A., "HyperspectrACE: a Human Vision Inspired Hyperspectral Color and Contrast Adjustment", *Journal of Imaging Science and Technology*, 2023, pp. 060403-1 - 060403-18, DOI: 10.2352/J.ImagingSci.Technol.2022.66.6.060403
- Cattaneo A., Sarti B., Plutino A. and Rizzi A., "On the Identification of Colour Photographic Processes" (OpenAccess), *Heritage*, Special Issue Colour Photography and Film: Analysis, Preservation, and Conservation of Analogue and Digital Materials, Vol. 5, Issue 4, pp. 4074 – 4088, 2022, DOI: 10.3390/heritage5040210
- Rizzi A., Plutino A., Vecchi D., Guadagno A. G., Lucertini M., "Dynamic Range of Luminance Perception in Acute Hypobaric Hypoxia", *High Altitude Medicine & Biology*, 2022, DOI: 10.1089/ham.2022.0036
- Plutino A., Sarti B., Armellin L. and Rizzi A., "A Computational Model of Human Colour Vision for Film Restoration" (OpenAccess), *Gestalt Theory*, vol.44, no.1-2, 2022, pp.175-182, DOI: 10.2478/gth-2022-0005
- Sarti B., Plutino A., Crespi A., Morabito G., Rizzi A., "FiRe2: an online database for photographic and cinematographic film technical data", *Journal on Computing and Cultural Heritage*, online 25/07/2022, DOI: 10.1145/3532520
- Plutino A., Simone G., Sarti B. and Rizzi A., "Movie barcode as support for video analysis and film restoration" (OpenAccess), *SCientific RESearch and Information Technology (SCIRES)*, Vol. 11, Issue 2, pp. 33-40, 2021, DOI: 10.2423/i22394303v11n2p33
- Plutino A., Crespi A., Morabito G., Sarti B. and Rizzi A., "FiRe2: a Call for a Film Repository of Technical Data and Memories for Photo and Movie Restoration" (OpenAccess), *Cinergie*, Special issue Film Heritage and Digital Scholarship: Computer-Based Approaches to Film Archiving, Restoration and Philology, Vol. 2021(20), pp. 69-83, 2021, DOI: 10.6092/issn.2280-9481/13106
- Plutino A., Scipioni S., Lombardi C. A., Giuliani L., Mazzoni A., Marcucci R. and Rizzi A., "A test on color discrimination in complex scenes for a better comprehension of color blindness" (OpenAccess), *Color Culture and Science Journal*, Vol. 13 (2), pp. 72-83, 2021, DOI: 10.23738/CCSJ.130200
- Plutino A., Barricelli B. R., Casiraghi E., Rizzi A., "Scoping review on automatic color equalization algorithm" (OpenAccess), *J. Electron. Imaging* 30(2), 020901 (2021), DOI: 10.1117/1.JEI.30.2.020901.
- Cereda M., Plutino A. and Rizzi A., "Quick Gamut mapping for simplified color correction" (OpenAccess), *Color Culture and Science Journal*, Vol. 1(1), pp. 79-84, 2021, DOI: 10.23738/CCSJ.130100
- Plutino A. and Simone G., "The Limits of Colorimetry in Cultural Heritage Applications", *Coloration Technology*, Volume 137, Issue 1, Special Issue: Challenges and Open Problems in Colorimetry Special Issue, February 2021, Pages 56-63. DOI: 10.1111/cote.12500
- Plutino A., Rizzi A. "Research Directions Color Movie Restoration", *Coloration Technology*, Volume 137, Issue 1, Special Issue: Challenges and Open Problems in Colorimetry Special Issue, February 2021, Pages 78-82. DOI: 10.1111/cote.12488
- Signoroni A., Conte M., Plutino A. and Rizzi A., "Spatial-spectral evidence of glare influence on hyperspectral acquisitions" (OpenAccess), *Sensors* 2020, 20(16), 4374; DOI: 10.3390/s20164374
- De Meo S., Plutino A. and Rizzi A., "Assessing colour of gemstones", *Color Research and Application* 2020, pp. 1-11, Wiley Periodicals Inc., 2020, DOI: 10.1002/col.22472

Barricelli B. R., Casiraghi E., Lecca M., Plutino A., and Rizzi A., “A cockpit of multiple measures for assessing film restoration quality”, *Pattern Recognition Letters*, Pattern Recognition and Artificial Intelligence Techniques for Cultural Heritage special issue, available online: 8 January 2020, DOI: 10.1016/j.patrec.2020.01.009.

Plutino A., Lanaro M. P., Liberini S., Rizzi A., “Work memories in Super 8: Searching a frame quality metric for movie restoration assessment”, *Journal of Cultural Heritage*, 2019, DOI: 10.1016/j.culher.2019.06.008.

Plutino A., Grechi L., Rizzi A., “Evaluation of the perceived colour difference under different lighting for museum applications” (OpenAccess), *Color Culture and Science Journal*, Vol. 11 (2), 2019, DOI: 10.23738/CCSJ.110210.

SUBMITTED

Plutino A., “Color systems for motion picture film digitization: a critical review”, *Color Research and Application* 2024.

PEER-REVIEWD BOOK CHAPTERS

Gaspani M. F., Sarti B., Plutino A. and Rizzi A., “Early Cinema: spectral and colorimetric analysis of Tinting dyes for film restoration”, in: Cherubini F. and Muco A., *Color and Colorimetry. Multidisciplinary Contributions Vol. XVIII A* (Open Access), pp. 257 – 264, DOI: 10.23738/RCASB.009, ISBN: 978-8-899513-22-1, ISSN: 2785-115X, 2023.

Thielemann C., Armellin L., Sarti B., and Plutino A., “Ozaphan films: preliminary study on color analysis and digitization”, in: Cherubini F. and Muco A., *Color and Colorimetry. Multidisciplinary Contributions Vol. XVIII A* (Open Access), pp. 249 – 256, DOI: 10.23738/RCASB.009, ISBN: 978-8-899513-22-1, ISSN: 2785-115X, 2023.

Longoni M., Scipioni S., Plutino A., Sarti B., Rizzi A. and Bruni S., “Towards the identification of original dyes in chromogenic films: the development of an approach based on chemical analysess”, in: Cherubini F. and Muco A., *Color and Colorimetry. Multidisciplinary Contributions Vol. XVIII A* (Open Access), pp. 228 – 231, DOI: 10.23738/RCASB.009, ISBN: 978-8-899513-22-1, ISSN: 2785-115X, 2023.

Armellin L., Plutino A. and Rizzi A. “Using commercial glasses for CVD correction with digital displays”, in: Cherubini F. and Muco A., *Color and Colorimetry. Multidisciplinary Contributions Vol. XVIII A* (Open Access), pp. 115 – 122, DOI: 10.23738/RCASB.009, ISBN: 978-8-899513-22-1, ISSN: 2785-115X, 2023.

Armellin L., Plutino A. and Rizzi A. “On the need of accurate device calibration in color vision deficiency computer assessment”, in: Cherubini F. and Muco A., *Color and Colorimetry. Multidisciplinary Contributions Vol. XVIII A* (Open Access), pp. 51 – 57, DOI: 10.23738/RCASB.009, ISBN: 978-8-899513-22-1, ISSN: 2785-115X, 2023.

Plutino A., Sarti B. and Rizzi, A., “Models and Mathematical Issues in Color Film Restorations”, in: Bretti, G., Cavaterra, C., Solci, M., Spagnuolo, M. (eds) *Mathematical Modeling in Cultural Heritage*, MACH 2021, Springer INdAM Series, vol 55. Springer, 2023, Singapore, DOI: 10.1007/978-981-99-3679-3_13

Sarti B., Plutino A., Longoni M., Rizzi A. and Bruni S, “Chemistry and colorimetry: preliminary investigation on chromogenic motion picture film”, *Colour Photography and Film: Sharing knowledge of analysis, preservation, and conservation of analogue and digital materials 2022* (Open Access), pp. 41 – 48 , DOI: 10.23738/RCASB.008, ISBN: 978-88-99513-20-7, ISSN: 2785-115X, 2023.

Cattaneo A., Sarti B., Plutino A. and Rizzi A., “On the identification of colour photographic processes”, *Colour Photography and Film: Sharing knowledge of analysis, preservation, and conservation of analogue and digital*

materials 2022 (Open Access), pp. 127 – 129, DOI: 10.23738/RCASB.008, ISBN: 978-88-99513-20-7, ISSN: 2785-115X, 2023.

Eschbach R., Plutino A., Armellin L., Rizzi A., “The gray side of Ishihara bubbles”, *Colour and Colorimetry. Multidisciplinary Contributions. Vol. XVII A* (Open Access), pp. 71-75, RCASB, 2022, ISBN: 978-88-99513-18-4, DOI: 10.23738/RCASB.006

Armellin L., Plutino A., Rizzi A., “Online games for colour deficiency data collection”, *Colour and Colorimetry. Multidisciplinary Contributions. Vol. XVII A* (Open Access), pp. 79-86, RCASB, 2022, ISBN: 978-88-99513-18-4, DOI: 10.23738/RCASB.006

Bellotti S. and Plutino A., “Methods and techniques for Color film restoration” (OpenAccess), *Color Design & Technology A Multidisciplinary Approach to Colour Part I*, pp. 73 – 100, edited by Alice Plutino, Alessandro Rizzi and Gabriele Simone, RCASB ISSN: 2785-115X, 2022, ISBN-13: 9788899513191, DOI: [10.23738/RCASB.00504](https://doi.org/10.23738/RCASB.00504)

Sarti B., Plutino A. and Simone G., “Digital color acquisition and management of cultural heritage: from spectrophotometry to digital imaging” (OpenAccess), *Digitally enhanced design. Breakthrough tools, processes, and expressive potentials*, pp. 29 – 46, edited by Maurizio Rossi and Davide Spallazzo, Franco Angeli Journal and Series, Date of first publication: 2021-09-22, ISBN-13: 9788835125716,

Crespi A., Morabito G., Plutino A. and Rizzi A., “Photographic and Cinematographic Film Repository (FiRE): identification of films for digital restoration” (OpenAccess), *Colour Photography and Film: Sharing knowledge of analysis, preservation, conservation, migration of analogue and digital materials*, pages 37-41, edited by Barbara Cattaneo, Marcello Picollo, Filippo Cherubini and Veronica Marchiafava, Research Culture And Science Books series - Vol. 00, 2021, DOI: 10.23738/RCASB.001, ISBN 978-88-99513-14-6.

Brivio A., Plutino A. and Rizzi A., “The colors of “Toute Une Nuit”: A study on color restoration in film” (OpenAccess), *The International Scientific Conference of the Color Society of Russia: Selected Papers*, pp. 119 – 124, edited by Yulia A. Griber and Verena M. Schindler. Smolensk: Smolensk State University Press, 2021, ISBN 978-5-88018-660-0.

Bellotti S., Bottaro G., Plutino A. and Valsesia M., “Mathematically-Based Algorithms for Film Digital Restoration”, *Imagine Math 7 - Between Culture and Mathematics*, Pages 89-104, edited by Michele Emmer and Marco Abate, Springer. ISBN 978-3-030-42653-8

Plutino A. and Rizzi A., “Alternative Methods for Digital Contrast Restoration”, *Imagine Math 7 - Between Culture and Mathematics*, Pages 73-87, edited by Michele Emmer and Marco Abate, Springer. ISBN 978-3-030-42653-8

Plutino A. and Rizzi A., “Algorithms for Film Digital Restoration: Unsupervised approaches for Film Frames Enhancement”, *Moving Pictures, Living Machines*, pp. 265-272, Editor: MIMES International, 2020, ISBN: 9788869772764, ISSN: 2420-9570

Rizzi A., Barricelli B. R., Bonanomi C., Plutino A., Lanaro M. P., “Spatial Models of Colors for Digital Color Restoration”, *Conservation, Restoration, and Analysis of Architectural and Archaeological Heritage*, pp.386-404, IGI Global, 2019, DOI: 10.4018/978-1-5225-7555-9.ch015.

Plutino A., Bellotti S., Lombardi C., Guerrini P., Rizzi A., “The funerals of the bombing of Piazza della Loggia in Brescia: an example of rescue of an historical and amatorial document”, *Atti del Nono Convegno Internazionale*

Diagnosis for the Conservation and Valorization of Cultural Heritage, edited by Campanella, L. - Piccioli, C. - Rendina, A. - Romanelli, V., Cervino Edizioni, pp. 121-129, Napoli 2018, ISBN: 978-88-95609-42-3.

SUBMITTED

Plutino A., Gaia M., and Ahmedhodzic E., “The A.V. Archives and the Cost of Digital Preservation After the 2020s”, XXIX FilmForum - International Film and Media Studies Conference, November 2nd – 4th 2022, Udine (IT)

PEER-REVIEWD CONFERENCE PROCEEDINGS

Plutino A., "Film and Digital Media: Open Issues and Novel Approaches for Digital Color Film Restoration", Archiving Conference, 2022, pp 11 - 14, <https://DOI.org/10.2352/issn.2168-3204.2022.19.1.3>

Sarti B., Crespi A., Morabito G., Plutino A. and Rizzi A., “Film Repository for Restoration (FiRe2): identification of photographic and cinematographic films” (OpenAccess), In: Proceedings of the International Colour Association (AIC), International Colour Association (AIC), ISBN 978-0-6484724-3-8, pp. 1341-1346, 2021, https://aic-color.org/resources/Documents/Proceedings_AIC2021.pdf.

Plutino A., Sarti B., Simone G. and Rizzi A., “A Film in a Frame: Movie Barcodes for Film Restoration” (OpenAccess), In: Proceedings of the International Colour Association (AIC), International Colour Association (AIC), ISBN 978-0-6484724-3-8, pp. 1305-1310, 2021, https://aic-color.org/resources/Documents/Proceedings_AIC2021.pdf.

Scipioni S., Lombardi C. A., Giuliani L., Plutino A. and Rizzi A., “Verso una più ampia comprensione del daltonismo: un test sulla discriminazione di colori in scene complesse” (OpenAccess), XVI Conferenza del Colore 2020, 3rd -4th September 2020, <https://gruppodelcolore.org/portfolio-articoli/bergamo-2020/>

Gaspani M. F., Spada P. R., Plutino A. and Rizzi A., “Un film in un frame: studio sulle variazioni cromatiche in film e video digitali” (OpenAccess), XVI Conferenza del Colore 2020, 3rd -4th September 2020, <https://gruppodelcolore.org/portfolio-articoli/bergamo-2020/>

Barenghi F., Bittante M., Del Longo N., Mangano C., Plutino A. and Rizzi A., “Uno studio sull'associazione colori, termini ed emozioni, basato sui colori primari di Lüscher” (OpenAccess), XVI Conferenza del Colore 2020, 3rd -4th September 2020, <https://gruppodelcolore.org/portfolio-articoli/bergamo-2020/>

Sarti B., Plutino A. and Rizzi A., “Glare ottico nelle immagini iperspettrali” (OpenAccess), XVI Conferenza del Colore 2020, 3rd -4th September 2020, <https://gruppodelcolore.org/portfolio-articoli/bergamo-2020/>

Cereda M., Rizzi A. and Plutino A., “Quick Gamut mapping per la color correction” (OpenAccess), XVI Conferenza del Colore 2020, 3rd -4th September 2020, <https://gruppodelcolore.org/portfolio-articoli/bergamo-2020/>

Plutino A. and Rizzi A., “Paper recycling consciousness into schools: an audiovisual evidence from the ‘80”, 12th Orphan Film Symposium - Water, Climate, & Migration hosted by the 6th Eye International Conference, 23rd -27th May 2020, Amsterdam (NL).

Plutino A. and Rizzi A., “Film Restoration: closing the gap between humanities and hard sciences”, Science ABC hosted by Università La Sapienza di Roma, Rome, 19th -21st February 2020.

Rossi M., Plutino A., Siniscalco A. and Rizzi A., “Teaching color and color science: the experience of an international Master course”, IS&T Electronic Imaging, Color Imaging: Displaying, Processing, Hardcopy, and Applications, 26th-30th January 2020, Burlingame (California), <https://DOI.org/10.2352/ISSN.2470-1173.2020.15.COLOR-165>.

Rizzi A., Plutino A. and Rossi M., “Fundamentals of color teaching in post-graduate education” (OpenAccess), AIC Color and Landscape, 14 th-17th October 2019, Buenos Aires (Argentina).

Grechi. L., Plutino A., Rizzi A., “Test percettivi per la valutazione della differenza cromatica sotto diversi illuminanti” (OpenAccess), XV Color Conference, Gruppo del Colore, 5th–7th September 2019, Macerata (Italy), <https://gruppodelcolore.org/portfolio-articoli/macerata-2019/>.

Plutino A., Lecca M., Rizzi A., “A cockpit of measures for image quality assessment in digital film restoration”, in *New Trends in Image Analysis and Processing – ICIAP 2019*, September 9th -10th 2019, Trento (Italy), DOI: <https://DOI.org/10.1007/978-3-030-30754-7>, Springer.

Rizzi A., Lecca M., Plutino A. and Liberini S., “Designing a Cockpit for Image Quality Evaluation”, Transactions: Imaging/Art/Science - Image Quality, Content and Aesthetics, University of Westminster, London (UK), 26th April 2019.

Otto I., Plutino A., Lanaro M.P., Rizzi A., “All the colours of a film: study of the chromatic variation of movies” (OpenAccess), AIC Colours and Human Comfort, Lisboa (Portugal), 29th -30th September 2018, ISSN: 2617-2410

Rizzi A., Lanaro M.P., Plutino A., Liberini S., Simone G., Bellotti S., “MIPS Lab”, CVPL, Vico Equense – Napoli (Italy), 30th -31th August 2018.

Rizzi A., Bonanomi C., Melada J., Plutino A., “The influence of Spatial arrangement of a scene in the stability of color appearance under different lights”, BalkanLight2018, Sofia (Bulgary), 04th -06th June 2018.

Plutino A., Lanaro M.P., Ghiroldi A., Bellotti S., Rizzi A., “Work memories in Super8: the dawn of paper recycling in Brescia”, YOCOCU 2018: Dialogues in Cultural Heritage, Matera (Italy), May 23rd -25th, 2018.

Plutino A., Lanaro M. P., Ghiroldi A., Cammarata R., Rizzi A., “ACE for Super 8 movie restoration”, Poster Session, Mathematics for Computer Vision, Trento (Italy), February 15th -16th, 2018

Plutino A., Richard N., Deborah H., Fernandez-Maloigne C., Ludwig N. G., “Spectral Divergence for Cultural Heritage applications”, 25th IS&T's Color and Imaging Conference (CIC), September 11th-15th 2017 Lillehammer (Norway), ISBN: 978-0-89208-328-2

SUBMITTED

Plutino A., “Less is more”: How understanding the process of motion picture film scanning can make your life easie,” Archiving 2024 Final Program and Proceedings, vol. 21. Society for Imaging Science and Technology, 2024.

CONFERENCE ABSTRACTS WITHOUT PROCEEDINGS

Gargano M., Franceschetti L., Palamenghi A., Mazzarelli D., Cabrini M., Plutino A. and Cattaneo C., “Multiband Imaging Methods in Humanitarian Forensic Medicine to Enhance the Readability of Documents from Mediterranean Shipwreck Victims”, 76th Annual Conference of the American Academy of Forensic, Denver, CO. February 19-24, 2024.

Plutino A., Bottaro G. and Rizzi A., “Media Vulnerability in Film restoration”, MAGIS, International Film and Media Studies Spring School XVIII edition, Gorizia, 2020.

Saleh M., Plutino A., Ahmetovic D. and Rizzi A., “Valutazione mediante App del ruolo dei bordi nella percezione del colore sia in soggetti normali che affetti da alterazioni della percezione del colore”, XXXII Convegno Nazionale AIMAS, 7-9 October 2020.

DIVULGATIVE ARTICLES

Journal of Film Preservation

Plutino A., Serrade C., Richard N., “Bleu ou Bleu?”, Microscop (CNRS en Centre Limousin Poitou-Charentes) n°77, pp 10-11, February 2018.

EDITORIAL ACTIVITY

2022 - Today Deputy Editor for Color Culture and Science Journal (CCSJ)

2021 - 2022 Associate Editor for Color Culture and Science Journal (CCSJ)

2021 Guest Editor for Color Research & Applications

ADVISORY BOARDS, ROLES OF DIRECTION, CONTROL AND COORDINATION

2024 - Today Vice-president of the Italian Color Group

2023 - Today Coordinator of the National Division 8 (Imaging) of CIE (International Commission on Illumination)

2019 – 2024 Member of the Presidential Council of the Italian Color Group

2022 - 2023 Vice - Coordinator of the National Division 8 (Imaging) of CIE (International Commission on Illumination)

CONFERENCE ORGANIZATION AND PANEL CHAIRSHIPS

Organizer, 3rd Edition of Colour Photography and Film: sharing knowledge of analysis, preservation, conservation, migration of analogue and digital materials, 12th-13th September, 2024 Amsterdam , <https://www.gruppodelcolore.org/la-conferenza/>

Scientific Committee, XIX Conferenza del Gruppo del Colore, 28th-19th November 2024, Online, <https://www.gruppodelcolore.org/la-conferenza/>

Scientific Committee, XVIII Conferenza del Gruppo del Colore, 15th-16th September 2023, Lecco, <https://www.gruppodelcolore.org/conferences/?lang=en>

Scientific Committee, XVII Conferenza del Gruppo del Colore, 12th-13th September 2022, Florence, <https://www.gruppodelcolore.org/conferences/?lang=en>

Scientific Committee, 2nd Edition of Colour Photography and Film: sharing knowledge of analysis, preservation, conservation, migration of analogue and digital materials, 15th – 16th September 2022, Florence, <https://www.gruppodelcolore.org/conferences/?lang=en>

Chair, 14th AIC Congress, Milano 2021”, August 30th – September 3rd, 2021, <https://www.aic2021.org/>.

Organizing Committee, 14th AIC Congress, Milano 2021”, August 30th – September 3rd, 2021, <https://www.aic2021.org/>.

Scientific Committee, Colour Photography and Film: sharing knowledge of analysis, preservation, conservation, migration of analogue and digital materials, 29th – 30th March 2021, Florence (ONLINE), <https://www.gruppodelcolore.org/call-for-papers-colour-photography-and-film-sharing-knowledge-of-analysis-preservation-conservation-migration-of-analogue-and-digital-materials/>

Organizing Committee, A Conservation Carol – La Diagnostica punto di incontro nel mondo dei Beni Culturali, 18th December 2020, Milano, <http://conservationcarol.di.unimi.it/>.

Chair, XVI Conferenza del colore dell’Associazione Italiana Colore, 3rd-4thSeptember 2020, Università di Bergamo, <https://gruppodelcolore.org/la-conferenza/>

Organizing Committee, A Conservation Carol – Approcci Interdisciplinari nell’ambito della Conservazione di Beni Culturali, 20 th December 2019, Milano, <http://conservationcarol.di.unimi.it/>.

Volunteer, Symposium on Geometry Processing 2019, 8th- 10th July, 2019, Milano, <https://sgp2019.di.unimi.it/>.

Organizing Committee, Scientists Improving their role in heritage conservation community, 4th October 2018.

Volunteer, 24th General Conference ICOM, 3rd- 9th July, 2016, Milano, <http://network.icom.museum/icom-milan-2016/>.

REVIEWER ACTIVITY

2021 Reviewer for the Journal Cultura e Scienza del Colore - Color Culture and Science (CCSJ), <https://jcolore.gruppodelcolore.it/ojs/index.php/CCSJ>

Reviewer for the Journal of the Optical Society of America A,
<https://www.osapublishing.org/josaa/home.cfm>

2020 Reviewer for the Journal of Electronic Imaging,
<https://www.spiedigitallibrary.org/journals/journal-of-electronic-imaging?SSO=1>

2019 Reviewer for Pattern Recognition Letters, <https://www.journals.elsevier.com/pattern-recognition-letters>

Reviewer for the Journal of the International Colour Association (JAIC), <https://www.aic-color.org/journal>

Reviewer for the International Journal of Computational Methods in Heritage Science (IJCMHS),
<https://www.igi-global.com/journal/international-journal-computational-methods-heritage/145079>

2018 Reviewer for the International Journal of Computational Methods in Heritage Science (IJCMHS),
<https://www.igi-global.com/journal/international-journal-computational-methods-heritage/145079>

INVITED PRESENTATIONS TO INTERNATIONAL CONFERENCES

Invited Speaker, XXXII Convegno AIMAS, 5th-7th October 2022, Reggio Calabria, <http://www.aimas.it/home.asp>

Invited Speaker, YOCOCU2020 – Hands on Heritage: Experiencing conservation, mastering management, On line Conference (2nd)-3rd - 4th November 2020, <https://www.yococu2020.com/> .

Invited Speaker, ICA- Belgium Colour Symposium connecting colour in design, art & science, organised by ICA – Belgium, 23rd -25th May, 2019, Ghent (Belgium).

Invited Speaker, Imagine Maths 7 Conference Mathematics and Culture, organized by ISIA Roma Design, Venice, 29th -31st March, 2019, Istituto Veneto di Scienze, Lettere ed Arti, Palazzo Franchetti.

Invited Speaker, The Film Forum International Film Studies Conference – Moving Pictures and Living Machines: Automation, Animation and the Imitation of Life in Cinema and Media, XXVI Udine International Film Studies Conference, 21st -23rd March, Gorizia (Italy).

Invited Speaker, The Fourth International Conference Colour in Films, 25th – 27th February 2019, organized by the Colour Group (GB), HTW Berlin and the University of Zurich, in cooperation with the BFI and Birkbeck, University of London.

SUPERVISED THESIS

Erica Wanda Erminia Vergani, Tinting and Toning: Ananlisi dei coloranti per simulazioni digitali accurate, Bachelor's Thesis in F8X Science and Technology for Studying and Preserving the Cultural Heritage and Information Storage Media, April 2023

Enea Ahmedhodzic, Lo sviluppo del laboratorio di digitalizzazione del "Filmiski Centar Sarajevo", Master's Thesis in LM-11 Science for the conservation of cultural heritage, April 2023

Giorgia Flaviani, Colore ed emozione: L'uso dei colori del test di Lüscher in ambito artistico, Bachelor's Thesis in F8X Science and Technology for Studying and Preserving the Cultural Heritage and Information Storage Media, June, 2022

Maria Francesca Gaspani, Analisi Delle Componenti Spettrali Di Coloranti Per Tinting e Toning, Bachelor's Thesis in F8X Science and Technology for Studying and Preserving the Cultural Heritage and Information Storage Media, April, 2022

Alice Mirabella, Applicazioni di Image Quality per il restauro cinematografico, Bachelor's Thesis in L-31 Computer Science, April, 2022

Letizia Caielli, I colori dei film e il loro degrado: ricerca di metodi analitici per lo studio dei coloranti nelle pellicole cinematografiche cromogeniche, Master's Thesis in LM-11 Science for the conservation of cultural heritage, October, 2021

Arianna Crespi, Photo Fire2: a digital archive to preserve analogue film technical heritage", Master's Thesis in LM-11 Science for the conservation of cultural heritage, July 2021

Luca Armellin, Test sperimentali per la determinazione del ruolo dei bordi per utenti daltonici, Bachelor's Thesis in L-31 Computer Science, June, 2021

Arianna Brivio, I Colori di Toute Une Nuit: Analisi e confronto tra Metodi di Restauro Manuali e Automatici, Bachelor's Thesis in F8X Science and Technology for Studying and Preserving the Cultural Heritage and Information Storage Media, December 2020

Paolo Raimondo Spada, Illuminazione Museale: Il caso dei Musei del Castello Sforzesco di Milano, Bachelor's Thesis in F8X Science and Technology for Studying and Preserving the Cultural Heritage and Information Storage Media, December 2020

Elena Gusmini, Una analisi dei dati relativa al ciclo di vita di un film per la grande distribuzione, Bachelor's Thesis in L-31 Computer Science, December 2020.

Matteo Cereda, Stato dell'arte e implementazione di un software per manipolazione 3D LUT colore, Bachelor's Thesis in L-31 Computer Science, March 2020.

Giulia Bottaro, La Catalogazione di Materiali Audiovisivi: valutazione di diversi standard di catalogazione a partire dall'esperienza presso l'archivio Cinescatti, Master's Thesis in LM-11 Science for the conservation of cultural heritage, December 2019

Michele Valsesia, DustScratch: An alternative tool for film restoration, Master's Thesis in LM-18 Computer Science, April 2019

Alberto Cavenago, Analisi dell'accuratezza colorimetrica di metodi di rendering fotografico, Bachelor's Thesis in L-31 Computer Science, April 2019.

Serena Bellotti, Analisi dei punti critici e dei problemi organizzativi nel processo di restauro digitale di pellicole, per lo sviluppo di un protocollo guida, Master's Thesis in LM-11 Science for the conservation of cultural heritage, February 2019