

Computational Beauty: Aesthetic Judgment at the Intersection of Art and Science

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Abstract. In part one of the *Critique of Judgment*, Immanuel Kant wrote that “the judgment of taste . . . is not a cognitive judgment, and so not logical, but is aesthetic [1].” While the condition of aesthetic discernment has long been the subject of philosophical discourse, the role of the arbiters of that judgment has more often been assumed than questioned. The art historian, critic, connoisseur, and curator have long held the esteemed position of the aesthetic judge, their training, instinct, and eye part of the inimitable subjective processes that Kant described as occurring upon artistic evaluation. Although the concept of intangible knowledge in regard to aesthetic theory has been much explored, little discussion has arisen in response to the development of new types of artificial intelligence as a challenge to the seemingly ineffable abilities of the human observer. This paper examines the developments in the field of computer vision analysis of paintings from canonical movements within the history of Western art and the reaction of art historians to the application of this technology in the field. Through an investigation of the ethical consequences of this innovative technology, the unquestioned authority of the art expert is challenged and the subjective nature of aesthetic judgment is brought to philosophical scrutiny once again.

Keywords: Computer Vision, Aesthetic Judgment, Aesthetic Theory, Critical Theory, Formalism

1 Aesthetics: Between Computer Science and Art History

Since the pioneering research on two-dimensional imaging for statistical pattern recognition that took place in the 1960s, when the computer was brought from a typewriting calculator to an image-processing machine, the field of computer vision science has developed into an independent field of study within the quickly evolving domain of artificial intelligence. While developments within computer vision have mainly derived from the impetus of defense technology, in the last twenty years the application of this research has been applied to the interpretation of two-dimensional images, creating a new branch of study. For example, computer vision utilizes algorithms for different object recognition related problems including: instance recognition, categorization, scene recognition, and pose

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Science and Aesthetic Judgment Sholom Jacob Kahn,1970 **Science and Aesthetic Judgement** Sholom J. Kahn,2016-05-05 First published in 1953 This title provides an exposition and discussion on Hippolyte Taine 1828 1893 the leader of the Naturalist movement in French criticism The book examines his theories and some of his practice as a critic of literature and art A more general consideration of the chief issues raised by his central problem is also given namely the attempt to approach the analysis and judgement of works of art historically and thus to provide an objective basis of criticism This title will be of interest to students of art history and philosophy **Science and Aesthetic Judgment** Sholom Jacob Kahn,2013-03 **Science and Aesthetic Judgment** Sholom Jacob Kahn,2015-09-06 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **Science and aesthetic judgment. A study in Taine's method** Sholom Kahn,1953 *The Aesthetics of Scientific Experiments* Milena Ivanova,Alice Murphy,2023-06-16 The relationship between aesthetics and science has begun to generate substantial interest However for the most part the focus has been on the beauty of theories and other aspects of scientific practice have been neglected This book offers a novel perspective on aesthetics in experimentation via ten original essays from an interdisciplinary group comprised of philosophers historians of science and art and artists The collection provides an analysis of the concept of beauty in the evaluation of experiments What properties do practising experimenters value How have the aesthetic properties of scientific experiments changed over the years Secondly the volume looks at the role that aesthetic factors including negative values such as ugliness as well as experiences of the sublime and the profound play in the construction of an experiment and its reception Thirdly the chapters provide in depth historical case studies from the Royal Society which also allows for a study of the depiction of scientific experiment in artworks as well as contemporary examples from the Large Hadron Collider and cases of experiments designed by artificial intelligence Finally it offers an exploration of the commonalities between how we learn from experiments on the one hand and the cognitive value of artworks on the other The Aesthetics of Scientific Experiments will be of interest to researchers and advanced students working in philosophy and history of science philosophy

and history of art as well as practising scientists and science communicators *The Aesthetics of Science* Milena Ivanova, Steven French, 2020-01-16 This volume builds on two recent developments in philosophy on the relationship between art and science the notion of representation and the role of values in theory choice and the development of scientific theories Its aim is to address questions regarding scientific creativity and imagination the status of scientific performances such as thought experiments and visual aids and the role of aesthetic considerations in the context of discovery and justification of scientific theories Several contributions focus on the concept of beauty as employed by practising scientists the aesthetic factors at play in science and their role in decision making Other essays address the question of scientific creativity and how aesthetic judgment resolves the problem of theory choice by employing aesthetic criteria and incorporating insights from both objectivism and subjectivism The volume also features original perspectives on the role of the sublime in science and sheds light on the empirical work studying the experience of the sublime in science and its relation to the experience of understanding The Aesthetics of Science tackles these topics from a variety of novel and thought provoking angles It will be of interest to researchers and advanced students in philosophy of science and aesthetics as well as other subdisciplines such as epistemology and philosophy of mathematics *Aesthetics, Affect, and Making Meaning in Science Education* Per-Olof Wickman, Vaughan Prain, Russell Tytler, 2025-02-12 This book offers novel approaches theoretical insights and results on the development of students and teachers interest in science as situated learning It argues for the importance of the affective and emotional dimensions of teaching and learning in STEM classrooms in parallel to the cognitive dimensions Contributions to this book examine aesthetics aesthetic judgement and aesthetic experience in science education from the perspectives of researchers and practitioners and make a case for integrating aesthetics and affective experiences in science education teaching and learning research and practice They explore how an aesthetics of science can empirically be observed to take shape through classroom interactions and how such interactions influence learning and how science is valued in aesthetic terms in relation to other practices The research studies featured in this book span from preschool to undergraduate students and also include a theoretical contribution reviewing and synthesising the methodological contributions to this volume They draw on recent theoretical methodological and empirical advances on the role of aesthetic experience for learning science These new developments are used to investigate how a disciplinary aesthetics of science can be developed and can meet that of other subjects and how these various aesthetic practices may be generatively dovetailed for the benefit of learning science and developing an interest in science This book s contribution extends beyond the fields of science education research Its insights can assist policymakers instructional designers and teacher educators in considering emotional aspects of learning and values more generally when implementing strategies to foster meaning making alongside sense making It was originally published as a special issue of the International Journal of Science Education **Computer Vision - ECCV 2014 Workshops** Lourdes Agapito, Michael M. Bronstein, Carsten Rother, 2015-03-18 The four volume set

LNCS 8925 8926 8927 and 8928 comprises the refereed post proceedings of the Workshops that took place in conjunction with the 13th European Conference on Computer Vision ECCV 2014 held in Zurich Switzerland in September 2014 The 203 workshop papers were carefully reviewed and selected for inclusion in the proceedings They were presented at workshops with the following themes where computer vision meets art computer vision in vehicle technology spontaneous facial behavior analysis consumer depth cameras for computer vision chlearn looking at people pose recovery action interaction gesture recognition video event categorization tagging and retrieval towards big data computer vision with local binary pattern variants visual object tracking challenge computer vision ontology applies cross disciplinary technologies visual perception of affordance and functional visual primitives for scene analysis graphical models in computer vision light fields for computer vision computer vision for road scene understanding and autonomous driving soft biometrics transferring and adapting source knowledge in computer vision surveillance and re identification color and photometry in computer vision assistive computer vision and robotics computer vision problems in plant phenotyping and non rigid shape analysis and deformable image alignment Additionally a panel discussion on video segmentation is included *J.M. Robertson* Odin Dekkers, 2018-10-26 Published in 1998 J M Robertson Rationalist and Literary Critic is a study of the life of one of the most erudite and prolific critics of the late nineteenth and early twentieth centuries The Scotsman John MacKinnon Robertson 1856 1933 rationalist and enemy of religion to the core published over one hundred books and thousands of articles in fields as diverse as sociology economics history anthropology biblical criticism and literary criticism This once widely known and feared author was all too quickly forgotten after his death and his work is now seldom read The aim of this book is to demonstrate that Robertson s writings and in particular his acute and powerful literary criticism much respected by T S Eliot have not lost their relevance for late twentieth century readers Moreover through the examinations of Robertson s work in its contextual framework this study provides a wide ranging perspective on the late Victorian literary scene which perhaps present day literary historians have not given the detailed attention it deserves

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