



## Extended cognition and the space of social interaction

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### ARTICLE INFO

*Article history:*  
Received 8 April 2010  
Available online xxxx

*Keywords:*  
Extended mind  
Social cognition  
Theory Theory  
Simulation Theory  
Moebius Syndrome  
Gesture  
Coordination  
Intersubjectivity  
Phenomenology

### ABSTRACT

The extended mind thesis (EM) asserts that some cognitive processes are (partially) composed of actions consisting of the manipulation and exploitation of environmental structures. Might some processes at the root of social cognition have a similarly extended structure? In this paper, I argue that social cognition is fundamentally an interactive form of space management—the negotiation and management of “we-space”—and that some of the expressive actions involved in the negotiation and management of we-space (gesture, touch, facial and whole-body expressions) drive basic processes of interpersonal understanding and thus do genuine social-cognitive work. Social interaction is a kind of extended social cognition, driven and at least partially constituted by environmental (non-neural) scaffolding. Challenging the Theory of Mind paradigm, I draw upon research from gesture studies, developmental psychology, and work on Moebius Syndrome to support this thesis.

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### 1. Introduction

The extended mind thesis (EM) asserts that some cognitive processes are (partially) composed of actions consisting of the manipulation and exploitation of environmental structures (Clark, 2008; Clark & Chalmers, 1998; Hurley, 1998; Hutchins, 1995; Menary, 2007; Rowlands, 2003). Some cognitive processes are thus partially driven by environmental (non-neural) scaffolding. Might some of the processes at the root of social cognition have a similarly extended structure? Despite intense recent interest in both EM and social cognition in philosophy and cognitive science, this question has yet to receive sustained consideration.

In this paper, I argue that social cognition is a kind of extended cognition. Specifically, I argue that social cognition is fundamentally an interactive form of space management—the negotiation and management of “we-space”—and that some of the expressive actions involved in the negotiation and management of we-space (gesture, touch, facial and whole-body expressions, etc.) drive basic processes of interpersonal understanding and thus do genuine social-cognitive work. Some social cognitive processes are therefore partially driven by and composed of non-neural scaffolding; and social cognition is in this way not reducible to individual, intracranial mechanisms but instead emerges from within the dynamics of the interactive process itself. Put otherwise, social interaction is a form of social cognition—the self-structuring negotiation of what I call “we-space”. Challenging the dominant Theory of Mind paradigm in social cognition literature, I draw upon empirical research from gesture studies, developmental psychology, and work on Moebius Syndrome to support this thesis.

### 2. Embodiment, interaction, and “we-space”

The basic mode of human sociality is face-to-face interaction with others who are physically co-present (Zhao, 2003). Co-presence occurs within shared contexts of interaction in which others become physically accessible and subject to one

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# Social Interaction And Consciousness

**Mark Haugaard, Matthias Kettner**



## **Social Interaction And Consciousness:**

Social Interaction and Consciousness Peter D. Ashworth, **Social Interaction and Consciousness** Peter D. Ashworth, 1979 Consciousness in Interaction Fabio Paglieri, 2012 Consciousness in Interaction is an interdisciplinary collection with contributions from philosophers psychologists cognitive scientists and historians of philosophy It revolves around the idea that consciousness emerges from and impacts on our skilled interactions with the natural and social context Section one discusses how phenomenal consciousness and subjective selfhood are grounded on natural and social interactions and what role brain activity plays in these phenomena Section two analyzes how interactions with external objects and other human beings shape our understanding of ourselves and how consciousness changes social interaction self control and emotions Section three provides historical depth to the volume by tracing the roots of the contemporary notion of consciousness in early modern philosophy The book offers interdisciplinary insight on a variety of key topics in consciousness research as such it is of particular interest for researchers from philosophy of mind phenomenology cognitive and social sciences and humanities **Self and Consciousness** Frank S. Kessel, Pamela M. Cole, Dale L. Johnson, Milton D. Hakel, 2014-05-22 This volume contains an array of essays that reflect and reflect upon the recent revival of scholarly interest in the self and consciousness Various relevant issues are addressed in conceptually challenging ways such as how consciousness and different forms of self relevant experience develop in infancy and childhood and are related to the acquisition of skill the role of the self in social development the phenomenology of being conscious and its metapsychological implications and the cultural foundations of conceptualizations of consciousness Written by notable scholars in several areas of psychology philosophy cognitive neuroscience and anthropology the essays are of interest to readers from a variety of disciplines concerned with central substantive questions in contemporary social science and the humanities **Language Structure, Discourse, and the Access to Consciousness** Maksim Stamenov, 1997-01-01 The focus of this collective volume is on the mutual determination of language structure discourse patterns and the accessibility to consciousness of mental contents of different types of organization and complexity The contributions address the following problems among others the history of the interpretation of conscious and unconscious mind in the theoretical discourse of modern linguistics the determination of the structure of consciousness by the grammatical structure the levels of access of grammatical and lexical information to consciousness the development of cognitive complexity and control in ontogeny pathologies of consciousness access in discourse comprehension and production the cognitive contextual prerequisites for the representation of meaning in consciousness the relationships between language structure and qualia in the phenomenology of experience the dialogical structure of intentionality and meaning representation etc Series B **Consciousness and Neural Plasticity** Morten Overgaard, Mads Jensen, 2012-01-01 In contemporary consciousness studies the phenomenon of neural plasticity has received little attention despite the fact that neural plasticity is of still increased interest in neuroscience

We will however argue that neural plasticity could be of great importance to consciousness studies. If consciousness is related to neural processes it seems at least *prima facie* that the ability of the neural structures to change should be reflected in a theory of this relationship. Neural plasticity refers to the fact that the brain can change due to its own activity. The brain is not static but rather a dynamic entity which physical structure changes according to its use and environment. This change may take the form of growth of new neurons, the creation of new networks and structures and change within network structures that is changes in synaptic strengths. Plasticity raises questions about the relation between consciousness and brain functions. If consciousness is connected to specific brain structures as a function or in identity what happens to consciousness when those specific underlying structures change. It is therefore possible that the understanding and theories of neural plasticity can have direct consequences for a theory about consciousness. For instance theories of strict identity between consciousness and structure may face the serious dilemma to either accept that say the experience of the colour red is fundamentally different in one individual over time due to cortical changes or to abandon the strong identity thesis altogether. Were one to pursue a theory according to which consciousness is not an epiphenomenon to brain processes consciousness may in fact affect its own neural basis. The neural correlate of consciousness is often seen as a stable structure that is something that is stable over time. Considering neural plasticity this is not necessarily so. The NCC might change and hence literally change the way a person is conscious. What it is about the NCC that can and might change is even though it can be relevant for the relation between the brain and consciousness is still an unanswered question. There are hence a lot of questions that might shed light upon the relevant but unknown relations between consciousness and the brain. Therefore We hereby propose to do a Research Topic on consciousness and neural plasticity to shed light on these underestimated issues. In contemporary consciousness studies the phenomenon of neural plasticity has received little attention despite the fact that neural plasticity is of still increased interest in neuroscience. We will however argue that neural plasticity could be of great importance to consciousness studies. If consciousness is related to neural processes it seems at least *prima facie* that the ability of the neural structures to change should be reflected in a theory of this relationship. Neural plasticity refers to the fact that the brain can change due to its own activity. The brain is not static but rather a dynamic entity which physical structure changes according to its use and environment. This change may take the form of growth of new neurons, the creation of new networks and structures and change within network structures that is changes in synaptic strengths. Plasticity raises questions about the relation between consciousness and brain functions. If consciousness is connected to specific brain structures as a function or in identity what happens to consciousness when those specific underlying structures change. It is therefore possible that the understanding and theories of neural plasticity can have direct consequences for a theory about consciousness. For instance theories of strict identity between consciousness and structure may face the serious dilemma to either accept that say the experience of the colour red is fundamentally different in one individual over time due to cortical

changes or to abandon the strong identity thesis altogether. Were one to pursue a theory according to which consciousness is not an epiphenomenon to brain processes, consciousness may in fact affect its own neural basis. The neural correlate of consciousness is often seen as a stable structure that is something that is stable over time. Considering neural plasticity, this is not necessarily so. The NCC might change and hence literally change the way a person is conscious. What it is about the NCC that can and might change is even though it can be relevant for the relation between the brain and consciousness is still an unanswered question. There are hence a lot of questions that might shed light upon the relevant but unknown relations between consciousness and the brain. Therefore, we hereby propose to do a Research Topic on consciousness and neural plasticity to shed light on these underestimated issues.

*Comparative Analysis of Digital Consciousness and Human Consciousness: Bridging the Divide in AI Discourse* Lathabhavan, Remya, Mishra, Nidhi, 2024-04-22. In today's digital age, the rapid advancement of AI and digital technologies has led to the emergence of digital consciousness, blurring the lines between human and machine thinking. At the same time, these technologies offer unprecedented convenience and efficiency but pose significant challenges. Individuals are increasingly facing issues such as stress, anxiety, and technology addiction, impacting their overall well-being and decision-making processes. The dichotomy between digital consciousness and human consciousness raises critical questions about how we can navigate these challenges in a rapidly evolving technological landscape. To address these pressing concerns, *Comparative Analysis of Digital Consciousness and Human Consciousness: Bridging the Divide in AI Discourse* offers a comprehensive exploration of the impacts of digital consciousness on human well-being and decision-making. This book delves into the paradoxes and challenges posed by the coexistence of digital and human consciousness, providing insights from psychological perspectives, practitioner experiences, and academic research. By offering a nuanced understanding of these concepts, we aim to equip readers with the knowledge and tools needed to manage the implications of digital consciousness in their personal and professional lives.

*New Horizons in the Neuroscience of Consciousness* Elaine K. Perry, 2010. A fascinating cornucopia of new ideas based on fundamentals of neurobiology, psychology, psychiatry, and therapy, this book extends boundaries of current concepts of consciousness. Its eclectic mix will simulate and challenge not only neuroscientists and psychologists but entice others interested in exploring consciousness. Contributions from top researchers in consciousness and related fields project diverse ideas focused mainly on conscious/nonconscious interactions.

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Series B      *The challenges*

*of consciousness research in light of the variations of conscious experience* Christopher Gutland, Kelin Li, Marcela Venebra, Sucharit Katyal, Alexander Nicolai Wendt, 2024-02-29

**Theorising Noumenal Power** Mark Haugaard, Matthias Kettner, 2020-06-09 Theorising Noumenal Power is a critical engagement with Rainer Forst's theory of what he calls noumenal power. Forst is the most significant younger generation critical theorist of the Frankfurt School and his critics include several of the most influential contemporary political power theorists. The concept of noumenal power locates the sources of social and political power in the space of reasons or justifications using a normatively neutral account of justification. To exercise power on that account means to be able to determine use close or open up the space of justifications for others. Going back to Kant, the social subject is theorized as a reasoning being who confers legitimacy upon political structures based upon the cognitive faculty of justification. As argued by Max Weber, authority is the foundation of political institutions and authority presupposes a belief in legitimacy. On the one hand, such beliefs can be distorted as in ideology or they can be based upon a process of reasoned justification relative to normatively desirable principles. Critiquing the former while building upon the latter serves as the foundation for theorising just democratic political institutions. For Forst's critics, a key theme is how to differentiate ideological bad justification typically based upon emotion from normatively right democratic reasoning. Other important themes are the analysis of structural domination or the use of threats or other means of exercising power. The debate in this volume constitutes an exciting new way of rethinking the foundations of ideology, political power, democracy, and justice. Providing a state-of-the-art discussion concerning the relationship between political power and justification, *Theorising Noumenal Power* is essential for students and scholars interested in the theoretical foundations of political power, democracy, and justice. The chapters were originally published in the *Journal of Political Power*.

**Power in Contemporary Politics** Henri Goverde, Howard H. Lentner, 2000-07-28 This major book provides an up-to-date and state-of-the-art overview of the contemporary theory and practice of the most central concept in political science: power. The concept of political power is introduced within a three-part framework: contemporary theories of power, applications of power processes and practices, and the implications of modern power flows across the globe today. The book explores the many structures of power in the contemporary world from theories of its construction and use to its operation in policy networks and its wider exercise at different levels in the political process from the local to the global. Amongst the many themes explored are the reproduction and

**Consciousness in Humanoid Robots** Antonio Chella, Angelo Cangelosi, Giorgio Metta, Selmer Bringsjord, 2019-06-05 Building a conscious robot is a scientific and technological challenge. Debates about the possibility of conscious robots and the related positive outcomes and hazards for human beings are today no longer confined to philosophical circles. Robot consciousness is a research field aimed at a two-part goal: on the one hand, scholars working in robot consciousness take inspiration from biological consciousness to build robots that present forms of experiential and functional consciousness. On the other hand, scholars employ robots as tools to better understand biological

consciousness Thus part one of the goal concerns the replication of aspects of biological consciousness in robots by unifying a variety of approaches from AI and robotics cognitive robotics epigenetic and affective robotics situated and embodied robotics developmental robotics anticipatory systems and biomimetic robotics Part two of the goal is pursued by employing robots to advance and mark progress in the study of consciousness in humans and animals Notably neuroscientists involved in the study of consciousness do not exclude the possibility that robots may be conscious This eBook comprises a collection of thirteen manuscripts and an Editorial published by Frontiers in Robotics and Artificial Intelligence under the section Humanoid Robotics and Frontiers in Neurorobotics on the topic Consciousness in Humanoid Robots This compendium aims at collating the most recent theoretical studies models and case studies of machine consciousness that take the humanoid robot as a frame of reference The content in the articles may be applied to many different kinds of robots and to software agents as well

**Using Activity Domain Theory for Managing Complex Systems** Taxen, Lars,2009-11-30 Using Activity Domain Theory for the Coordination of Complex Projects offers a new approach towards managing the coordination of complex system development tasks

**Encyclopedia of Consciousness** William P. Banks,2009-03-26 Consciousness has long been a subject of interest in philosophy and religion but only relatively recently has it become subject to scientific investigation Now more than ever before we are beginning to understand this mental state Developmental psychologists understand when we first develop a sense of self neuropsychologists see which parts of the brain activate when we think about ourselves and which parts of the brain control that awareness Cognitive scientists have mapped the circuitry that allows machines to have some form of self awareness and neuroscientists investigate similar circuitry in the human brain Research that once was separate inquiries in discreet disciplines is converging List serves and small conferences focused on consciousness are proliferating New journals have emerged in this field A huge number of monographs and edited treatises have recently been published on consciousness but there is no recognized entry point to the field no comprehensive summary This encyclopedia is that reference Organized alphabetically by topic coverage encompasses a summary of major research and scientific thought regarding the nature of consciousness the neural circuitry involved how the brain body and world interact and our understanding of subjective states The work includes contributions covering neuroscience psychology philosophy and artificial intelligence to provide a comprehensive backdrop to recent and ongoing investigations into the nature of conscious experience from a philosophical psychological and biological perspective

*Hegel's Theory of Self-conscious Life* Guido Seddone,2022-10-24 This book strives to deal with Hegel s thought by means of a thorough unitarian and logical approach and to enforce the idea that philosophy is rigorous as far as it is able to consistently tackle the question of self consciousness It results that the logic underlying every philosophical interest traces back to the self referring investigation about life in the mode of self consciousness by which social practices and their history can be grasped Once we assess that self consciousness is life through the concept we would be able to realize the logical structure underlying its

historical outcomes      *Electromagnetic Field Theories of Consciousness: Opportunities and Obstacles* Tam Hunt, Jonathan Schooler, John Joe McFadden, Arnaud Delorme, Colin G. Hales, Mostyn Jones, Marissa Ericson, 2024-03-27 This new Research Topic is in part a celebration of the 30th anniversary of the game changing neural correlates of consciousness concept first proposed as part of Crick and Koch's 1990 neurobiological theory of consciousness After thirty years of research and theory building scholars in the science of consciousness are perhaps not much closer to a widely accepted theory of consciousness

**Introduction to the Science of Sociology** Robert Ezra Park, Ernest Watson Burgess, 1924      Unorthodox Minds in Contemporary Fiction Grzegorz Maziarczyk, Joanna Klara Teske, 2024-09-30 *Unorthodox Minds in Contemporary Fiction* seeks to provide an overview of the ways in which broadly understood contemporary fiction envisions explores and engenders minds going beyond the classical models The opening essay discusses the complex relationships between such innovative concepts of the mind and experimental techniques for presenting mentality The chapters which follow focus on disembodied and/or extended mind virtuality of avatar minds intermental thought of reader communities the capability of artificial intelligence and humans for genuine selfless love the interplay between technology and affect in posthuman consciousness The books under discussion include *Murmur* by Will Eaves *The Unfortunates* by B S Johnson *The Satanic Verses* by Salman Rushdie *H A PPY* by Nicola Barker and *Machines Like Me* by Ian McEwan A piece of conceptual fiction by Steve Tomasula one of the most innovative American novelists of our times exploring the human mind's alleged power to transcend its biological limits complements these scholarly inquiries      The Use of Key Figures and Its Impact on Activity Anja Kern, 2008 Originally presented as the author's thesis Universitat Stuttgart 2006      **Freedom After the Critique of Foundations** A. Kioupkiolis, 2012-07-25 An exploration of the contemporary re-conception of freedom after the critique of objective truths and ideas of an unchanging human nature in which modern self-determination was grounded This book focuses on the radical theorist Cornelius Castoriadis and the new paradigm of agonistic autonomy is contrasted with Marxian and liberal approaches



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 rightarrow hcl text mgcl 2 mgcl2 text h 2 text o h2o note all reactants and products require a coefficient of at least one stuck  
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 produces a salt and hydrogen gas is released the salt produced depends upon the metal and the acid if magnesium reacts  
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 mol of c2h2 is burned how many moles of co2 are formed 2 5 mol c if 1 0 mol of c2h2 is burned how many moles of oxygen  
 gas are consumed 9 a

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