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Discovering Ecology, Grades 6 - 12 *Designing Instruction for the Traditional, Adult, and Distance Learner: A New Engine for Technology-Based Teaching Artificial Intelligence CBSE Class 10 Book (For 2023 Exam) Motivation and Reinforcement Learning About Birds, Grades 4 - 8* **A Business Ecology Perspective on Community-Driven Open Source Ecology and Evolution of Darwin's Finches**

Integrating the Internet of Things Into Software Engineering Practices **Distributed Computing for Emerging Smart Networks Creativity Fostering Teacher Behavior: Measurement And Research** *The Year in Evolutionary Biology 2009, Volume 1168* **Ecology** *Computational Analysis and Understanding of Natural Languages: Principles, Methods and Applications Single Case*

Research Methodology **Fitness Landscapes and the Origin of Species (MPB-41)** *Management of Natural Resources, Sustainable Development and Ecological Hazards* Intelligent Autonomous Systems **Issues in Social Ecology: Human Milieus The Foundations of Behavioral Economic Analysis Artificial Intelligence and Sustainable Computing Artificial Intelligence for**

**All Contemporary
Social and
Sociological
Theory Modern
Water Resources
Engineering
Robot Ecology
Hasidic
Psychology**
*Learning Motor
Skills Ontogeny*
**Perceptual
Ecology
Encyclopedia of
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the National
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America The
Epigenesis of
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Imperative: A
Practical
Roadmap for
Business Soil
Ecology and
Ecosystem Services
Perspectives on
Industrial Ecology
The Ecology of**

Human
Development A
New Era in School
Counseling Real
Life Applications of
Soft Computing
**Heredity Matching
and Maximizing
Accounts Ecology**

This volume features an important collection of review articles highlighting the top science and developments in the field of evolutionary biology. NOTE: Annals volumes are available for sale as individual books or as a journal. For information on institutional journal subscriptions, please visit www.blackwellpublishing.com/nyas.
ACADEMY MEMBERS: Please contact the New York Academy of Sciences directly to

place your order (www.nyas.org). Members of the New York Academy of Science receive full-text access to the Annals online and discounts on print volumes. Please visit <http://www.nyas.org/MemberCenter/Join.aspx> for more information about becoming a member. One of Lulu's best sellers of all time, the second edition of the book Educate Toward Recovery is now called Motivation and Reinforcement: Turning the Tables on Autism. This book is the ultimate guide to home based autism intervention. It is a forward-thinking guide that translates the Verbal Behavior

Approach to ABA into everyday language. With over 100 new pages of material including new Chapters on Social Skills, Behavior Plans, Token Economies, and Advanced Instructional Control methods, this book is a must have even for those who own the 2006 version.

International ABA/VB presenter Robert Schramm, explains how you can keep your child engaged in motivated learning throughout his entire day without forcing participation, blocking escape, or nagging procedures. M&R is the full realization of modern ABA/VB Autism Intervention and a great

resource for parents, teachers, and therapists working with a child with autism as well as BCBA's looking for ways to improve their approach. To provide the necessary security and quality assurance activities into Internet of Things (IoT)-based software development, innovative engineering practices are vital. They must be given an even higher level of importance than most other events in the field. Integrating the Internet of Things Into Software Engineering Practices provides research on the integration of IoT into the software development life

cycle (SDLC) in terms of requirements management, analysis, design, coding, and testing, and provides security and quality assurance activities to IoT-based software development. The content within this publication covers agile software, language specification, and collaborative software and is designed for analysts, security experts, IoT software programmers, computer and software engineers, students, professionals, and researchers. Handbook of Perception, Volume X: Perceptual Ecology, deals with perceptual aspects

of the study of interaction of persons with their environment. The book is organized into six parts. Part I examines an ecological approach to the perceptual systems and cultural differences in perception. Part II is devoted to impaired perception and action. It includes studies on perception by the deaf and blind, and outlines the intellectual principles necessary for understanding sensory aids. Part III on aesthetics covers central problem of aesthetic theories and the generation and measurement of aesthetic forms. Part IV on architecture, music,

art, and cinema discusses the perceptual aspects of architecture; the psychology of music; and the perception of art and motion pictures. Part V deals with the role of olfactory hedonics in perfumery and the assessment and abatement of noxious odors; and food habits, gastronomy, and analysis of flavors and foods. Part VI focuses on parapsychology. It reviews experimental evidence on telepathy, clairvoyance, precognition, and psychokinesis in order to assess the status of parapsychology and show why it is paradoxical, outside

of accepted opinion, after some 100 years of psychic research. This book presents the state of the art in reinforcement learning applied to robotics both in terms of novel algorithms and applications. It discusses recent approaches that allow robots to learn motor skills and presents tasks that need to take into account the dynamic behavior of the robot and its environment, where a kinematic movement plan is not sufficient. The book illustrates a method that learns to generalize parameterized motor plans which is obtained by imitation or reinforcement learning, by

adapting a small set of global parameters and appropriate kernel-based reinforcement learning algorithms. The presented applications explore highly dynamic tasks and exhibit a very efficient learning process. All proposed approaches have been extensively validated with benchmarks tasks, in simulation and on real robots. These tasks correspond to sports and games but the presented techniques are also applicable to more mundane household tasks. The book is based on the first author's doctoral thesis, which won the 2013 EURON Georges Giralt PhD

Award. This Book provides introductory knowledge on Artificial Intelligence. You can briefly know about the areas of AI in which research is prospering. The book "Artificial Intelligence For All" is basically intended as a generic study for all the audience who are keen to know about the changing world and technology. Book provides knowledge in simple and systematic manner as it is written to gain generic knowledge of the most popular subject Artificial Intelligence and definitely about its spread. In general everybody now knows about

Artificial Intelligence as due to availability of multiple channels like news, media and online literature which gives brief description about the subject. But how Artificial Intelligence works, how it is formed and what are the areas of study required gaining the knowledge is described in nine chapters in this book. This book is written in a sequence of chapters starting from search methods and move to identifying a problem, following approaches like planning, constraints specifications, game playing things etc. However an attempt has been

made to write each chapter in a simplistic manner, so that reader can read interested topic and gain understanding without efforts. Audience , This book is prepared for the students at beginner level, curious readers, interested subject knowledge experts and general audience who aspire to know about Artificial Intelligence. This book presents high-quality research papers presented at 3rd International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering and Technology (ICSISCET 2021) held at Madhav Institute of

Technology & Science (MITS), Gwalior, India, from November 13-14, 2021. The book extensively covers recent research in artificial intelligence (AI) that knits together nature-inspired algorithms, evolutionary computing, fuzzy systems, computational intelligence, machine learning, deep learning, etc., which is very useful while dealing with real problems due to their model-free structure, learning ability, and flexible approach. These techniques mimic human thinking and decision-making abilities to produce systems that are intelligent, efficient, cost-effective, and fast.

The book provides a friendly and informative treatment of the topics which makes this book an ideal reference for both beginners and experienced researchers. This book contains scientific and engineering activities of the fifth international conference of Intelligent Autonomous Systems (IAS-5). The exploration for automatic systems has much attention over the centuries and created attractive research activities. The Intelligent and Autonomous systems are the current trend toward fully automatic systems that can adapt to changes in their

environment. The purpose of the fifth IAS conference is to provide an opportunity for the international community of researchers in the field of autonomous systems as well as architectures, tools, components, techniques, and new IAS design methodologies. The emphasis will be on science and technology for autonomous systems working in a complex environment. Connect students in grades 5-12 with science using *Discovering Ecology*. This 48-page book develops environmental awareness and profiles the planet's different biomes while focusing on current ecological

topics. Topics include alternative fuels, pollution, acid rain, the greenhouse effect, the ozone layer, and the effect humans have on the environment. This book includes maps, diagrams, vocabulary words, unit projects, exercises, illustrations, and everything needed to teach an ecology unit or supplement science curriculum. The book supports National Science Education Standards. Rapid advancements in the application of soft computing tools and techniques have proven valuable in the development of highly scalable systems and resulted in brilliant applications,

including those in biometric identification, interactive voice response systems, and data mining. Although many resources on the subject adequately cover the theoretic concepts, few provide clear insight into practical application. Filling this need, *Real Life Applications of Soft Computing* explains such applications, including the underlying technology and its implementation. While these systems initially seem complex, the authors clearly demonstrate how they can be modeled, designed, and implemented. Written in a manner that makes it accessible to

novices, the book begins by covering the theoretical foundations of soft computing. It supplies a concise explanation of various models, principles, algorithms, tools, and techniques, including artificial neural networks, fuzzy systems, evolutionary algorithms, and hybrid algorithms. Supplying in-depth exposure to real life systems, the text provides: Multi-dimensional coverage supported by references, figures, and tables Warnings about common pitfalls in the implementation process, as well as detailed examinations of possible solutions A timely account of developments in

various areas of application Solved examples and exercises in each chapter Detailing a wide range of contemporary applications, the text includes coverage of those in biometric systems, including physiological and behavioral biometrics. It also examines applications in legal threat assessment, robotic path planning, and navigation control. The authors consider fusion methods in biometrics and bioinformatics and also provide effective disease identification techniques. Complete with algorithms for robotic path planning, the book

addresses character recognition and presents the picture compression technique by using a customized hybrid algorithm. The authors conclude with a discussion of parallel architecture for artificial neural networks and supply guidelines for creating and implementing effective soft computing designs. This multi-contributor, international volume synthesizes contributions from the world's leading soil scientists and ecologists, describing cutting-edge research that provides a basis for the maintenance of soil health and sustainability. The book covers these advances from a

unique perspective of examining the ecosystem services produced by soil biota across different scales - from biotic interactions at microscales to communities functioning at regional and global scales. The book leads the user towards an understanding of how the sustainability of soils, biodiversity, and ecosystem services can be maintained and how humans, other animals, and ecosystems are dependent on living soils and ecosystem services. This is a valuable reference book for academic libraries and professional ecologists worldwide as a

statement of progress in the broad field of soil ecology. It will also be of interest to both upper level undergraduate and graduate students taking courses in soil ecology, as well as academic researchers and professionals in the field requiring an authoritative, balanced, and up-to-date overview of this fast expanding topic. The origin of species has fascinated both biologists and the general public since the publication of Darwin's Origin of Species in 1859. Significant progress in understanding the process was achieved in the "modern synthesis," when Theodosius Dobzhansky, Ernst Mayr, and others

reconciled Mendelian genetics with Darwin's natural selection. Although evolutionary biologists have developed significant new theory and data about speciation in the years since the modern synthesis, this book represents the first systematic attempt to summarize and generalize what mathematical models tell us about the dynamics of speciation. Fitness Landscapes and the Origin of Species presents both an overview of the forty years of previous theoretical research and the author's new results. Sergey Gavrilets uses a unified framework based on the notion

of fitness landscapes introduced by Sewall Wright in 1932, generalizing this notion to explore the consequences of the huge dimensionality of fitness landscapes that correspond to biological systems. In contrast to previous theoretical work, which was based largely on numerical simulations, Gavrillets develops simple mathematical models that allow for analytical investigation and clear interpretation in biological terms. Covering controversial topics, including sympatric speciation and the effects of sexual conflict on

speciation, this book builds for the first time a general, quantitative theory for the origin of species. This book deals with teachers' behaviors that promote the creativity of students. It includes a rating scale for measuring a teacher's creativity fostering behavior — a scale known as the CFTIndex — and a series of conceptualization and research papers, including a lead article by Professor Authur Cropley, whose original ideas served as the basis of the CFTIndex. The other papers in this volume are by international authors who have used the scale in their research and

who can now share their experiences using it in this volume. There is a dearth of measuring instruments that cover teacher behaviors where creativity is concerned, but the CFTIndex fills this vacuum, as evidenced by the many articles using this index in the international arena of creativity research. Energy resources -- Earth's nonliving resources -- Pollution -- Conserving earth's resources. Business-as-usual in terms of industrial and technological development - even if based on a growing fear of pollution and shortages of natural resources - will never deliver

sustainable development. However, the growing interest in recent years in the new science of industrial ecology (IE), and the idea that industrial systems should mimic the quasi-cyclical functions of natural ecosystems in an 'industrial food chain', holds promise in addressing not only short-term environmental problems but also the long-term holistic evolution of industrial systems. This possibility requires a number of key conditions to be met, not least the restructuring of our manufacturing and consumer society to reduce the effects of material and energy flows at the very

point in history when globalisation is rapidly increasing them. This book sets out to address the theoretical considerations that should be made implicit in future research as well as practical implementation options for industry. The systematic recovery of industrial wastes, the minimisation of losses caused by dispersion, the dematerialisation of the economy, the requirement to decrease our reliance on fuels derived from hydrocarbons and the need for management systems that help foster inter-industry collaboration and networks are among the topics

covered. The book is split into four sections. First, the various definitions of IE are outlined. Here, important distinctions are made between industrial metabolism and IE. Second, a number of different industrial sectors, including glass, petroleum and electric power, are assessed with regard to the operationalisation of industrial ecology. Eco-industrial Parks and Networks are also analysed. Third, the options for overcoming obstacles that stand in the way of the closing of cycles such as the separation and screening of materials are considered and,

finally, a number of implications for the future are assessed. The contributions to Perspectives on Industrial Ecology come from the leading thinkers working in this field at the crossroads between a number of different disciplines: engineering, ecology, bio-economics, geography, the social sciences and law. This book constitutes the refereed proceedings of the Third International Workshop on Distributed Computing for Emerging Smart Networks, DiCES-N 2022, held in Bizerte, Tunisia, in February 2022. Due to the COVID-19 pandemic the conference was

held online. The 5 full papers included in this volume were carefully reviewed and selected from 14 submissions. The volume also presents one invited paper. The papers are organized in topical sections on emerging networks and communications; cyber security of connected objects. Interest in the impact of ethical systems and social or religious ideologies on socio-behavioral patterns is a longstanding theme in social science research. While interest may have begun with Max Weber and his thesis of the relationship between the Protestant ethic and the spirit of

capitalism, it extends far beyond this. Surprisingly, few studies have delved into the socio-behavioral patterns emanating from Jewish ethics. This book, with a new introduction by the author, fills that gap. As Hasidic Psychology makes clear, Jewish ethics are unique in many ways, especially in that they are essentially other-centered. Man's ability to affect his own future and interpersonal relations are explained according to the theory of contraction, popularized in Hasidic thought: God, by contracting Himself to evacuate space for the human world, bestowed upon man the power and

responsibility to determine his own future, and even affect God's disposition. In the first part of the book, the sociological-structural concept of mono versus multiple ideal labeling is introduced. This concept refers to a social system in which diverse material and spiritual actualization patterns are structurally introduced as equal social ideals. In the second part, basic tenets of classic interaction and socialization are compared to the interpersonal perspective, and the contraction theory is explained as a process of "mutual emulation,"

whereby father and son affect each other. In the third part, a functional approach to deviance is developed through the Hasidic process known as "ascend via descend." Reflecting the focus of a Jean Piaget Symposium entitled Biology and Knowledge: Structural Constraints on Development, this volume presents many of the emergent themes discussed. Among these themes are: Structural constraints on cognitive development and learning come in many shapes and forms and involve appeal to more than one level of analysis. To postulate innate

knowledge is not to deny that humans can acquire new concepts. It is unlikely that there is only one learning mechanism, even if one prefers to work with general as opposed to domain-specific mechanisms. The problems of induction with respect to concept acquisition are even harder than originally thought. This text looks at how much has been learnt about the Darwin's Finch since Darwin's initial observations. It shows how interspecific competition and natural selection produce observable and measurable evolutionary change. The state of our planet continues to

deteriorate at an alarming rate. We have arrived at a situation where we need to determine urgent solutions before we reach a point of irreversible deterioration. Much has been written in different contexts about reaching sustainability but the concept itself needs to be defined in the framework of all different disciplines in order to arrive at optimal solutions. Hence this book is essentially trans-disciplinary in order to find appropriate sustainable solutions, involving, collaboration across a wide range of disciplines. Publishing papers from the First International Conference on Management of

Natural Resources, Sustainable Development and Ecological Hazards, the book features articles encompassing topic areas such as: Water Resources; Air; Soil; Ecology; Health Risk; Energy; Planning and Development; Political and Social Issues; The Re-Encounter; New Technologies; Learning from Nature; Safety. In this anticipated new edition of Single Case Research Methodology, David L. Gast and Jennifer R. Ledford detail why and how to apply standard principles of single case research methodology to one's own research or professional project. Using

numerous and varied examples, they demonstrate how single case research can be used for research in behavioral and school psychology, special education, speech and communication sciences, language and literacy, occupational therapy, and social work. This thoroughly updated new edition features two entirely new chapters on measurement systems and controversial issues in single subject research, in addition to sample data sheets, graphic displays, and detailed guidelines for conducting visual analysis of graphic data. This book will

be an important resource to student researchers, practitioners, and university faculty who are interested in answering applied research questions and objectively evaluating educational and clinical practices. In the Third Edition of Ken Allan's highly-praised Contemporary Social and Sociological Theory book, sociological theories and theorists are explored using a straightforward approach and conversational, jargon-free language. Filled with examples drawn from everyday life, this edition highlights diversity in contemporary

society, exploring theories of race, gender, and sexuality that address some of today's most important social concerns. Through this textbook students will learn to think theoretically and apply to their own lives. This practical guide to artificial intelligence and its impact on industry dispels common myths and calls for cross-sector, collaborative leadership for the responsible design and embedding of AI in the daily work of businesses and oversight by boards. • Provides a strategic framework for corporate boards and executive leadership teams to remain competitive

in the age of AI • Offers practical and clear advice on AI and machine learning, introducing technical concepts and translating research trends into practical applications while simultaneously incorporating critical governance, ethics, sustainability, and risk considerations • Provides traditional businesses and their boards with practical questions to ask their teams, suppliers, and technology partners and offers guidance on market trends and players to which to pay attention It considers the evidence against the exponential discounted utility

model and describes several behavioral models such as hyperbolic discounting, attribute based models and the reference time theory. Part IV describes the evidence on classical game theory and considers several models of behavioral game theory, including level-k and cognitive hierarchy models, quantal response equilibrium, and psychological game theory. Part V considers behavioral models of learning that include evolutionary game theory, classical models of learning, experience weighted attraction model, learning

direction theory, and stochastic social dynamics. Part VI studies the role of emotions; among other topics it considers projection bias, temptation preferences, happiness economics, and interaction between emotions and cognition. Part VII considers bounded rationality. The three main topics considered are judgment heuristics and biases, mental accounting, and behavioral finance. The Handbook of Environmental Engineering series is an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms: gas, solid, and liquid. This

exciting new addition to the series, Volume 15: Modern Water Resources Engineering, has been designed to serve as a water resources engineering reference book as well as a supplemental textbook. We hope and expect it will prove of equal high value to advanced undergraduate and graduate students, to designers of water resources systems, and to scientists and researchers. A critical volume in the Handbook of Environmental Engineering series, chapters employ methods of practical design and calculation illustrated by numerical

examples, include pertinent cost data whenever possible, and explore in great detail the fundamental principles of the field. Volume 15: Modern Water Resources Engineering, provides information on some of the most innovative and ground-breaking advances in the field today from a panel of esteemed experts. The Encyclopedia of Adolescence breaks new ground as an important central resource for the study of adolescence. Comprehensive in breath and textbook in depth, the Encyclopedia of Adolescence - with entries presented in easy-to-access A to

Z format - serves as a reference repository of knowledge in the field as well as a frequently updated conduit of new knowledge long before such information trickles down from research to standard textbooks. By making full use of Springer's print and online flexibility, the Encyclopedia is at the forefront of efforts to advance the field by pushing and creating new boundaries and areas of study that further our understanding of adolescents and their place in society. Substantively, the Encyclopedia draws from four major areas of research relating to adolescence. The

first broad area includes research relating to "Self, Identity and Development in Adolescence". This area covers research relating to identity, from early adolescence through emerging adulthood; basic aspects of development (e.g., biological, cognitive, social); and foundational developmental theories. In addition, this area focuses on various types of identity: gender, sexual, civic, moral, political, racial, spiritual, religious, and so forth. The second broad area centers on "Adolescents' Social and Personal Relationships". This area of research examines the

nature and influence of a variety of important relationships, including family, peer, friends, sexual and romantic as well as significant nonparental adults. The third area examines "Adolescents in Social Institutions". This area of research centers on the influence and nature of important institutions that serve as the socializing contexts for adolescents. These major institutions include schools, religious groups, justice systems, medical fields, cultural contexts, media, legal systems, economic structures, and youth organizations.

"Adolescent Mental Health" constitutes the last major area of research. This broad area of research focuses on the wide variety of human thoughts, actions, and behaviors relating to mental health, from psychopathology to thriving. Major topic examples include deviance, violence, crime, pathology (DSM), normalcy, risk, victimization, disabilities, flow, and positive youth development. A revolutionary new framework that draws on insights from ecology for the design and analysis of long-duration robots. Robots are increasingly leaving the confines of laboratories,

warehouses, and manufacturing facilities, venturing into agriculture and other settings where they must operate in uncertain conditions over long timescales. This multidisciplinary book draws on the principles of ecology to show how robots can take full advantage of the environments they inhabit, including as sources of energy. Magnus Egerstedt introduces a revolutionary new design paradigm—robot ecology—that makes it possible to achieve long-duration autonomy while avoiding catastrophic failures. Central to ecology is the idea

that the richness of an organism's behavior is a function of the environmental constraints imposed by its habitat. Moving beyond traditional strategies that focus on optimal policies for making robots achieve targeted tasks, Egerstedt explores how to use survivability constraints to produce both effective and provably safe robot behaviors. He blends discussions of ecological principles with the development of control barrier functions as a formal approach to constraint-based control design, and provides an in-depth look at the design of the

SlothBot, a slow and energy-efficient robot used for environmental monitoring and conservation. Visionary in scope, *Robot Ecology* presents a comprehensive and unified methodology for designing robots that can function over long durations in diverse natural environments. Bring the outside inside the classroom using *Learning about Birds for grades 4 and up!* This 48-page book covers classification, appearance, adaptations, and endangered species. It includes questions, observation activities, crossword puzzles, research projects,

study sheets, unit tests, a bibliography, and an answer key. *The New Era of School Counseling: A Practical Guide*, is much like its predecessor *The New School Counselor: Strategies for Universal Academic Achievement*. Also like its predecessor, this text uses a how-to-do-it approach with real world applications that equip school counselors with the knowledge and strategies grounded in ASCA National Model (ASCA, 2012) and deemed essential by the Council for Accreditation of Counseling and Related Educational Programs (CACREP, 2009). The accompanying

CD-ROM provides school counselors with revised action plans and results report templates and additional forms that meet ethical and legal practices to meet the rigorous demands and highest standards of practice. A glossary of frequently used terminology and acronyms in school settings are new to this edition. This thesis approaches the phenomenon of open source software (OSS) from a managerial and organisational point of view. In a slightly narrower sense, this thesis studies commercialisation aspects around community-driven open source. The term 'community-

driven' signifies open source projects that are managed, steered, and controlled by communities of volunteers, as opposed to those that are managed, steered, and controlled by single corporate sponsors. By adopting a business ecology perspective, this thesis places emphasis on the larger context within which the commercialisation of OSS is embedded (e.g., global and collaborative production regimes, ideological foundations, market characteristics, and diffuse boundary conditions). Because many business benefits arise as a consequence of the activities taking

place in the communities and ecosystems around open source projects, a business ecology perspective may be a useful analytical guide for understanding the opportunities, challenges, and risks that firms face in commercializing OSS. There are two overarching themes guiding this thesis. The first theme concerns the challenges that firms face in commercialising community-driven open source. There is a tendency in the literature on business ecosystems and open source to emphasise the benefits, opportunities, and positive aspects of behaviour, at the expense of the

challenges that firms face. However, business ecosystems are not only spaces of opportunity, they may also pose a variety of challenges that firms need to overcome in order to be successful. To help rectify this imbalance in the literature, the first theme particularly focuses on the challenges that firms face in commercialising community-driven open source. The underlying ambition is to facilitate a more balanced and holistic understanding of the collaborative and competitive dynamics in ecosystems around open source projects. The other theme concerns the

complex intertwining of community engagement and profit-oriented venturing. As is acknowledged in the literature, the subject of firm-community interaction has become increasingly important because the survival, success, and sustainability of peer production communities has become of strategic relevance to many organisations. However, while many strategic benefits may arise as a consequence of firm-community interaction, there is a lack of research studying how the value-creating logics of firm-community interaction are

embedded within the bigger picture in which they occur. Bearing this bigger picture in mind, this thesis explores the intertwining of volunteer community engagement and profit-oriented venturing by focusing on four aspects that are theorised in the literature: reinforcement, complementarity, synergy, and reciprocity. This thesis is designed as a qualitative exploratory single-case study. The empirical case is Joomla, a popular open source content management system. In a nutshell, the Joomla case in this thesis comprises the interactions in the

Joomla community and the commercial activities around the Joomla platform (e.g., web development, consulting, marketing, customisation, extensions). In order to achieve greater analytical depth, the business ecology perspective is complemented with ideas and propositions from other theoretical areas, such as stakeholder theory, community governance, organizational identity, motivation theory, pricing, and bundling. The findings show that the common challenges in commercialising community-driven open source revolve around nine distinct factors that roughly

cluster into three domains: the ecosystem, the community, and the firm. In short, the domain of the ecosystem comprises the global operating environment, the pace of change, and the cannibalisation of ideas. The domain of the community comprises the platform policy, platform image, and the voluntary nature of the open source project. And finally, the domain of the firm comprises the blurring boundaries between private and professional lives, the difficulty of estimating costs, and firm dependencies. Based on these insights, a framework for

analysing community-based value creation in business ecosystems is proposed. This framework integrates collective innovation, community engagement, and value capture into a unified model of value creation in contexts of firm-community interaction. Furthermore, the findings reveal demonstrable effects of reinforcement, complementarity, synergy, and reciprocity in the intertwining of volunteer community engagement and profit-oriented venturing. By showing that this intertwining can be

strong in empirical cases where commercial activities are often implicitly assumed to be absent, this thesis provides a more nuanced understanding of firm involvement in the realm of open source. Based on the empirical and analytical insights, a number of further theoretical implications are discussed, such as the role of intersubjective trust in relation to the uncertainties that commercial actors face, an alternative way of classifying community types, the metaphor of superorganisms in the context of open source, issues pertaining to the well-being of community

participants, and issues in relation to the transitioning of open source developers from a community-based to an entrepreneurial self-identity when commercialising an open source solution. Furthermore, this thesis builds on six sub-studies that make individual contributions of their own. In a broad sense, this thesis contributes to the literature streams on the commercialisation of OSS, the business value and strategic aspects of open source, the interrelationships between community forms of organising and entrepreneurial activities, and the nascent research on ecology perspectives on

peer-production communities. A variety of opportunities for future research are highlighted. Denna avhandling undersöker fenomenet öppen källkod, 'open source', ur ett lednings och styrningsperspektiv. Mer konkret studeras aspekter på kommersialisering av ett community-drivet open source projekt (OSS, open source software). Uttrycket 'community-drivet' hänvisar till open source projekt som drivs och styrs av volontärgrupper, till skillnad från open source projekt som drivs och styrs av enskilda företag. Genom att tillämpa ett affärsökologiperspe

ktiv fokuserar denna avhandling på det vidare sammanhang som karaktäriserar kommersialisering av OSS, såsom globala och kollaborativa produktionssystem, värderingarna öppenhet och samarbete, marknadsstrukturer, och diffusa organisationsgränser. Aktiviteterna i open source communityn och dess kringliggande ekosystem kan bidra till många fördelar för företag, och därför kan ett affärsökologiperspektiv vara en användbar analytisk lins för att förstå de möjligheter, utmaningar och risker som företag står inför när de kommersialiserar OSS. Två

övergripande teman lyfts fram i denna avhandling. Det första temat handlar om de utmaningar som företag står inför när de kommersialiserar community-driven OSS. Det finns i litteraturen om affärsökologier och open source en tendens att betona fördelar, möjligheter och positiva aspekter på beteende på bekostnad av att undersöka utmaningar som företag står inför. Affärsökologier innebär dock inte enbart möjligheter för företag, utan kan också orsaka en rad utmaningar som företag behöver hantera för att lyckas. Med utgångspunkt i denna obalans i

litteraturen fokuserar det första temat på de utmaningar med kommersialisering av community-driven OSS. Detta görs för att bidra till en mer balanserad och holistisk förståelse av den på samma gång kollaborativa och konkurrerande dynamiken i affärsökologin runt ett open source projekt. Det andra temat handlar om sammanflätningen (intertwining) mellan community-deltagande och vinstdrivande verksamhet. Såsom det framgår i litteraturen har frågan om samverkan mellan företag och communities blivit allt viktigare, eftersom communityernas

överlevnad, framgång och hållbarhet har blivit strategiskt viktiga för många organisationer. Även om många strategiska fördelar kan uppstå som en följd av samverkan mellan företag och communities saknas forskning om hur värdeskapande uppstår i en vidare kontext. Med ett bredare perspektiv i åtanke undersöker denna avhandling sammanflätningen av frivilligt community-deltagande och en vinstdrivande verksamhet genom att fokusera på fyra aspekter av sammanflätning som förekommer i litteraturen: förstärkning, komplementaritet, synergi, och ömsesidighet.

Denna avhandling är utformad som en kvalitativ utforskande fallstudie. Det empiriska fallet är Joomla, ett innehållshanterings system som bygger på open source. Inom ramen för avhandlingen undersöks fallet i termer av samspel inom Joomla-communityn och de kommersiella aktiviteterna som sker runt Joomla-plattformen (t.ex., webbutveckling, rådgivning, marknadsföring, anpassningar, och extensions). För att uppnå ett analytiskt djup kompletteras affärsekologiperspektivet med idéer och förslag från andra teoretiska områden, såsom intressentmodellen, community-

styrning, företagsidentitet, motivationsteori, prissättning, och buntning. Resultaten visar att utmaningarna med kommersialisering av community-driven OSS kretsar kring nio olika faktorer som kan grupperas i tre områden: ekosystemet, communityn, och företaget. Ekosystemsfaktorerna innefattar den globala verksamma miljön, förändringshastigheten och kannibalisering av idéer. Communityfaktorerna innefattar plattformspolicy, plattformsimago, och att deltagandet i open source projektet sker på frivillig basis. Slutligen innefattar

företagsfaktorerna suddiga gränser mellan privatliv och arbetsliv, svårigheten att uppskatta kostnader samt beroendeförhållanden mellan företag. Baserat på dessa insikter föreslås en modell för att analysera communitybaserad värdeskapande i affärsekologier. Modellen integrerar kollektiv innovation, community-deltagande, och value capture i en holistisk modell för community-baserad värdeskapande i kontexten samverkan mellan företag och communities. Vidare beskrivs effekterna av sammanflätningen av frivilligt community-deltagande och

vinstdrivande verksamhet i termer av förstärkning, komplementaritet, synergi, och ömsesidighet. Genom att visa att sammanflätningen av frivilligt community-deltagande och vinstdrivande verksamhet kan vara stark i fall där det ofta antas implicit att kommersiella aktiviteter inte förekommer ger denna avhandling en mer nyanserad förståelse av företags roll i kontexten open source. Baserat på empiriska och analytiska insikter diskuterar denna avhandling ett antal teoretiska konsekvenser, såsom rollen som intersubjektiv tillit

spelar i förhållande till den ovisshet som kommersiella aktörer står inför, ett alternativt sätt att klassificera community-typer, metaforen superorganismer i kontexten open source, community-deltagares välbefinnande, samt hur open source utvecklare hanterar övergången från en community-baserad självidentitet till en entreprenöriell självidentitet vid kommersialisering av OSS. Dessutom ger de sex delstudier som avhandlingen bygger på egna bidrag som presenteras i respektive delstudie. I stora drag bidrar denna avhandling till litteraturen om kommersialisering

av OSS, affärsmässiga och strategiska aspekter på open source, samspelet mellan community-driven entreprenörsverksamhet samt den framväxande forskning som använder ett affärsekologiperspektiv för att studera kollegial produktion baserad på allmännytta. En mängd olika möjligheter för framtida forskning lyfts fram. Computational Analysis and Understanding of Natural Languages: Principles, Methods and Applications, Volume 38, the latest release in this monograph that provides a cohesive and integrated exposition of these advances and

associated applications, includes new chapters on Linguistics: Core Concepts and Principles, Grammars, Open-Source Libraries, Application Frameworks, Workflow Systems, Mathematical Essentials, Probability, Inference and Prediction Methods, Random Processes, Bayesian Methods, Machine Learning, Artificial Neural Networks for Natural Language Processing, Information Retrieval, Language Core Tasks, Language Understanding Applications, and more. The synergistic confluence of linguistics,

statistics, big data, and high-performance computing is the underlying force for the recent and dramatic advances in analyzing and understanding natural languages, hence making this series all the more important. Provides a thorough treatment of open-source libraries, application frameworks and workflow systems for natural language analysis and understanding. Presents new chapters on Linguistics: Core Concepts and Principles, Grammars, Open-Source Libraries, Application Frameworks, Workflow Systems, Mathematical Essentials,

Probability, and more This volume is devoted principally to the theme of behavioral development. The study of ontogeny has attracted some of the most bitter and protracted controversies in the whole field of ethology and psychology. This is partly because the arguments have reflected more general and continuing ideological battles about nature and nurture. In the opening essay, Oppenheim shows how these debates have recurred in much the same form over the last century. His chapter also brings out a more worrying feature of such argument. He demonstrates that

authors who are well known for their strongly held partisan views have written in much more balanced ways than is usually admitted. Although the excluded middle is familiar enough in academic argument, the dynamic tensions actually present in developing systems may be particularly prone to polarize debate about what is actually happening. This point is elegantly explored by Oyama in her essay on her concept of maturation. "This book explores how technology impacts the process of devising instructional plans for adult students"-- Provided by publisher.

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