

Coordination Dynamics

Lecture 1: How nature handles complexity: self-organization of behavior

Introduction

Top-down (directed) vs bottom-up (self-organized) organization. For example clapping at the pace of an instructor or without instructor.

Science of emergence deals with the spontaneous pattern formation.

Large scale order out of small-scale interactions. The large scale is what you see, so the flog of birds flying in a pattern.

The behavior of the whole is more than (and different from) the sum of the parts, due to nonlinear interactions among the parts or between the parts and the environment.

Clapping is about synchrony and volume. If you clap in synchrony the volume is loud, but at the cost of silence between the claps. The sound levels are higher in unsynchronized clapping, because there is no periods of silence between the claps. You cannot clap fast and in synchrony.

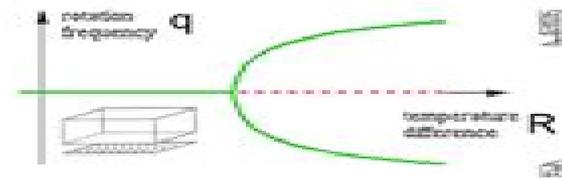
Smaller destination in clapping frequency is the low enthusiasm situation. Much higher SD in frequencies in the enthusiastic situation. This is according to Nada why you cannot clap fast and in synchrony, because the large SD between subjects.

Synergies

Synergetics: Science of self-organization of systems consisting of many interacting subsystems

- Is a rigorous, operationally defined approach that focuses on spontaneous pattern formation.
- Is a nomothetic approach (i.e., single law for many different systems)
- Exploit formal analogies (i.e. empirical equivalents).

Rayleigh-Benard convection: Complex systems consisting of many interacting subsystems. Like when boiling soup. The temperature gradient R is the unspecific control parameter. It does not tell every individual molecule what to do, but it effects the overall system. At a specific value of R the soup transitions from the state of rest to a rotating state, either clock-wise or counter clock-wise (pitchfork bifurcation diagram, see graph). Clusters are formed with molecules doing the same thing. After a while all the molecules act as a whole.



Circular causality: Order parameter (the state of a system as a whole) emerges from interactions among the parts, but the order parameter in turn simultaneously enslaves the behavior of the parts (it is hard to do something other than what the whole is doing, if everybody is clapping it is easy to clap along, but to initiate the clapping is difficult). Example with the bridge: because people are walking in a similar stepping pattern, the bridge starts to sway a bit. With this swaying you are prone to walk in this stepping pattern, resulting in more sway of the bridge.



Coordination Dynamics

CO Houle



Coordination Dynamics:

Coordination Dynamics: Issues and Trends Viktor K. Jirsa, Scott Kelso, 2013-11-01 This book brings together scientists from all over the world who have defined and developed the field of Coordination Dynamics Grounded in the concepts of self organization and the tools of nonlinear dynamics appropriately extended to handle informational aspects of living things Coordination Dynamics aims to understand the coordinated functioning of a variety of different systems at multiple levels of description The book addresses the themes of Coordination Dynamics and Dynamic Patterns in the context of the following topics Coordination of Brain and Behavior Perception Action Coupling Control Posture Learning Intention Attention and Cognition *Coordination: Neural, Behavioral and Social Dynamics* Armin Fuchs, Viktor K. Jirsa, 2007-12-11 One of the most striking features of Coordination Dynamics is its interdisciplinary character The problems we are trying to solve in this field range from behavioral phenomena of interlimb coordination and coordination between stimuli and movements perception action tasks through neural activation patterns that can be observed during these tasks to clinical applications and social behavior It is not surprising that close collaboration among scientists from different fields as psychology kinesiology neurology and even physics are imperative to deal with the enormous difficulties we are facing when we try to understand a system as complex as the human brain The chapters in this volume are not simply write ups of the lectures given by the experts at the meeting but are written in a way that they give sufficient introductory information to be comprehensible and useful for all interested scientists and students *Neurodynamics of Cognition and Consciousness* Leonid I. Perlovsky, Robert Kozma, 2007-08-26 Experimental evidence in humans and other mammals indicates that complex neurodynamics is crucial for the emergence of higher level intelligence Dynamical neural systems with encoding in limit cycle and non convergent attractors have gained increasing popularity in the past decade The role of synchronization desynchronization and intermittent synchronization on cognition has been studied extensively by various authors in particular by authors contributing to the present volume This book addresses dynamical aspects of brain functions and cognition **Handbook of Brain Connectivity** Viktor K. Jirsa, A.R. McIntosh, 2007-08-16 Our contemporary understanding of brain function is deeply rooted in the ideas of the nonlinear dynamics of distributed networks Cognition and motor coordination seem to arise from the interactions of local neuronal networks which themselves are connected in large scales across the entire brain The spatial architectures between various scales inevitably influence the dynamics of the brain and thereby its function But how can we integrate brain connectivity amongst these structural and functional domains Our Handbook provides an account of the current knowledge on the measurement analysis and theory of the anatomical and functional connectivity of the brain All contributors are leading experts in various fields concerning structural and functional brain connectivity In the first part of the Handbook the chapters focus on an introduction and discussion of the principles underlying connected neural systems The second part introduces the currently available non invasive technologies for

measuring structural and functional connectivity in the brain Part three provides an overview of the analysis techniques currently available and highlights new developments Part four introduces the application and translation of the concepts of brain connectivity to behavior cognition and the clinical domain

The Complementary Nature J. A. Scott Kelso, David A. Engstrom, 2006-05-05 How the ubiquitous human tendency to polarize either or nature nurture body mind yin yang can be explained in terms of coordination dynamics a new conception of brain function and how such polar opposites can be reconciled

Sensorimotor Foundations of Social Cognition Andreas K. Engel, Paul F. M. J. Verschure, Danica Kragic, Daniel Polani, Alfred Oliver Effenberg, Peter König, 2022-06-21

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Dynamic Patterns J. A. Scott Kelso, 1995 foreword by Hermann Haken For the past twenty years Scott Kelso's research has focused on extending the physical concepts of self organization and the mathematical tools of nonlinear dynamics to understand how human beings and human brains perceive intend learn control and coordinate complex behaviors In this book Kelso proposes a new general framework within which to connect brain mind and behavior Kelso's prescription for mental life breaks dramatically with the classical computational approach that is still the operative framework for many newer psychological and neurophysiological studies His core thesis is that the creation and evolution of patterned behavior at all levels from neurons to mind is governed by the generic processes of self organization Both human brain and behavior are shown to exhibit features of pattern forming dynamical systems including multistability abrupt phase transitions crises and intermittency *Dynamic Patterns* brings together different aspects of this approach to the study of human behavior using simple experimental examples and illustrations to convey essential concepts strategies and methods with a minimum of mathematics Kelso begins with a general account of dynamic pattern formation He then takes up behavior focusing initially on identifying pattern forming instabilities in human sensorimotor coordination Moving back and forth between theory and experiment he establishes the notion that the same pattern forming mechanisms apply regardless of the component parts involved parts of the body parts of the nervous system parts of society and the medium through which the parts are coupled Finally employing the latest techniques to observe spatiotemporal patterns of brain activity Kelso shows that the human brain is fundamentally a pattern forming dynamical system poised on the brink of instability Self organization thus underlies the cooperative action of neurons that produces human behavior in all its forms

Dynamics of Joint-Action, Social Coordination and Multi-Agent Activity Michael J. Richardson, Richard C. Schmidt, Rick Dale, Rachel W. Kallen, Joanna Raczaszek-Leonardi, 2018-02-28

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Dynamics and Control of Process Systems 2001 (DYCOPS-6) George Stephanopoulos, Jay Hyung Lee, En Sup Yoon, 2001 This Proceedings contains papers presented at the sixth IFAC Symposium on Dynamics and Control of Chemical Processes DYCOPS 2001 which was held on Jeju Island Korea on June 4-6 2001 The triennial DYCOPS

symposium is one of IFAC's highest profile regular events and has established an enviable reputation for quality. The reputation and coverage of DYCOPS ensures that these events always provide a comprehensive showcase of the best and latest research into all aspects of process control. DYCOPS 6 had as its theme Bridging Engineering with Science and explored how the process control community should react to wider developments in chemical engineering research where molecular level phenomena and product design as related to materials and biotechnology are becoming increasingly important. Featuring papers by many of the world's leading experts in process control, the Proceedings of DYCOPS 6 form an indispensable resource for process control engineers and for chemical engineers seeking to understand the latest developments in chemical process control. Altogether over 100 papers are presented on topics such as batch process control, model predictive control, control of distillation columns, fault detection and many others.

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Table of Contents Coordination Dynamics

1. Understanding the eBook Coordination Dynamics
 - The Rise of Digital Reading Coordination Dynamics
 - Advantages of eBooks Over Traditional Books
2. Identifying Coordination Dynamics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Coordination Dynamics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Coordination Dynamics
 - Personalized Recommendations
 - Coordination Dynamics User Reviews and Ratings
 - Coordination Dynamics and Bestseller Lists
5. Accessing Coordination Dynamics Free and Paid eBooks

- Coordination Dynamics Public Domain eBooks
 - Coordination Dynamics eBook Subscription Services
 - Coordination Dynamics Budget-Friendly Options
6. Navigating Coordination Dynamics eBook Formats
 - ePub, PDF, MOBI, and More
 - Coordination Dynamics Compatibility with Devices
 - Coordination Dynamics Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Coordination Dynamics
 - Highlighting and Note-Taking Coordination Dynamics
 - Interactive Elements Coordination Dynamics
 8. Staying Engaged with Coordination Dynamics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Coordination Dynamics
 9. Balancing eBooks and Physical Books Coordination Dynamics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Coordination Dynamics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Coordination Dynamics
 - Setting Reading Goals Coordination Dynamics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Coordination Dynamics
 - Fact-Checking eBook Content of Coordination Dynamics
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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