

# 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.

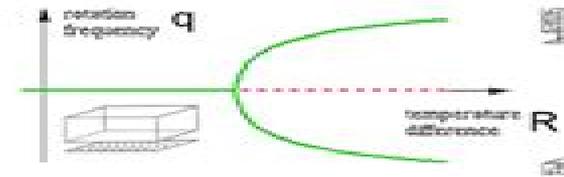
Smaller destination in clapping frequency is the low enthusiasm situation. Much higher SD in frequencies in the enthusiastic situation. This is according to Nada why you cannot clap fast and in synchrony, because the large SD between subjects.

### 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.



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**M Walker**



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