

键现——空命避疑与Emergence



- 知識問置——與觀學里面•
- 经命题跟(Game of Life)
- Emergence



到现实中一规范显显显现



- 短號間置——短號等里面。
- 经命题跟(Game of Life)
- Emergence



短弧體置——銀鐵等運動



服服——銀銀等里面

- 100张卡片。卡片上写了 从1到100总线一百个歌 字。单歌的50张卡片给男 生。双歌的50张卡片给灾 生。既在大学生的胃后
- 異男女找到适合自己的呆 。 奖金金额为编号总面 翻10倍



经是——既就等国场

- 100号安全配对对象意意然是73号男生
- 因为人太多则方太小。你我不可能随是看令人胃后的到孕。(圈子。)则则思到)
- 小野豆的人追踪大野豆的人一般即很是苦。 因为是大野豆的人居然中的人总不是即名宜加。 因此为是的巴里太的巴克拉拉尔。 但里太的可能是你用这么是你。 (还得与一位)



心理學腦是——Question

- - \$\famile{B}\$
 - 夸众
 - · (1)



心理學腦環——Question

- 究验?



Human Motivation Social Needs	Design Principles ■ Humans are social animals needs social communication and will be happier in social interaction, so interface can connect to social network or provide a place for different people to communicate.
Convenience	Portal suggested to provide all resources in one place.
Engage the audience	Declare the project as interesting and groundbreaking.
Impatience	 Game sessions should be short to encourage people to play e.g. during quick breaks. The game should designed "Easy to learn". Actions can be pre-recorded in multi-player games in case the number of online players are not enough at certain time periods.
Goal driven	Describe the goal clearly and set several different levels of goals
Enjoy proper challenge	 The task in game should have time limits. Although designed "Easy to learn", The game should "difficult to master". The outcome of game should be uncertain with randomness. The game should contain different levels of difficulty allowing the player to choose the degree of challenge
Encouragement (incentives)	Declare extrinsic incentives(such as opportunity to win IPOD kit).
Encouragement (spirit)	 Assign points for players' operation. The task in game should have time limits.
Continuing Encouragement	 Small, incremental rewards should be given when player making any progresses; Game should provide new challenge and new fun continuously.

Reputation • Rank list or high-score lists can be used to stimulate player.



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经命题级 (Game of Life)

• 简单的规则。令人惊叹的现象!



经命题现——简介

"LIFE is a classic computer game. It was invented by John H. Conway in 1970, and has entertained many hackers and wasted many years of computer time ever since. If you're smart and creative, it can be very intellectually stimulating. It's a simulation game which can generate strange and beautiful patterns, sometimes in complex and interesting ways."

Opening paragraph of <u>Alan Hensel</u>'s ReadMe on the Game of Life



经命题现——历史

- 1950s。冯·诺氏曼为语拟生物细胞的自贯复制证是出了'细胞自动机'的概念
- 1970年。劍術大學的歌學家绚顯·何顿·康维 (John Horton Conway) 投骨了一个叫做《生命 類類》的电脑類類
- 1970年10月。美国趣味歌学大师马丁·惠登馆(Martin Gardner。1914.11.21-2010.5.22。又译:马丁·加德纳)通过《科学美国人》杂志的"歌学游戏"专栏,将原理的"生命"游戏介绍给学术界之外的广大读者。



John Horton Conway



经命题是——规则

对于处定"全"态的格,若从个知居中有2个或3个"生",则避免存芜,否则将因过于孤独或过于孤游而死亡。

对于处在"死"态的空格,若八个领格中有3个"生",则该格转变为"生"(代表感衔过程),否则继续空景.



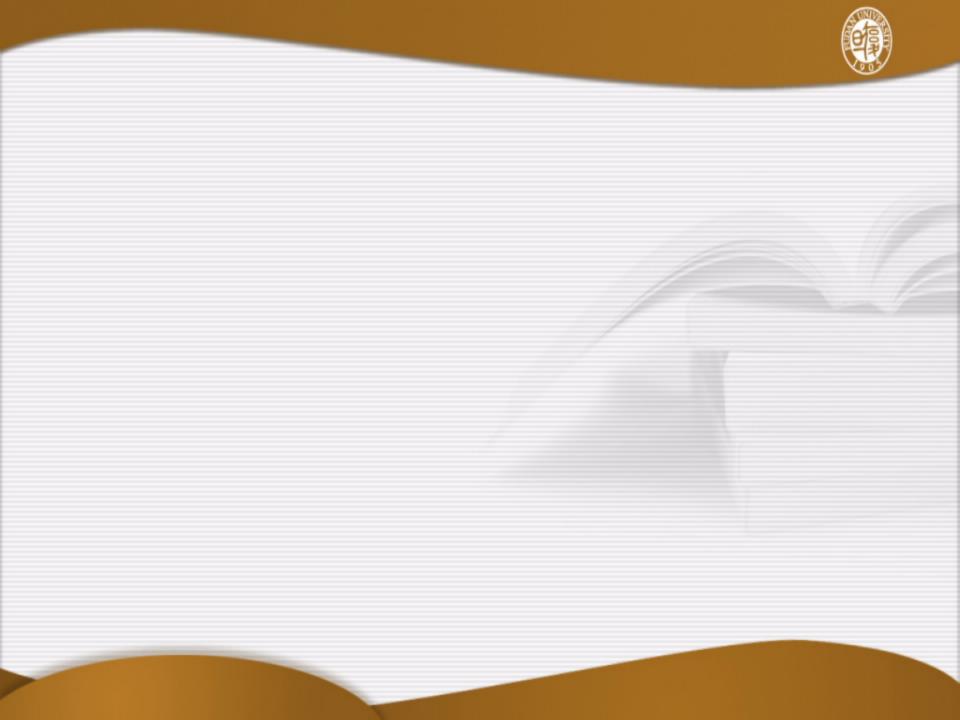
经命颁现——规则

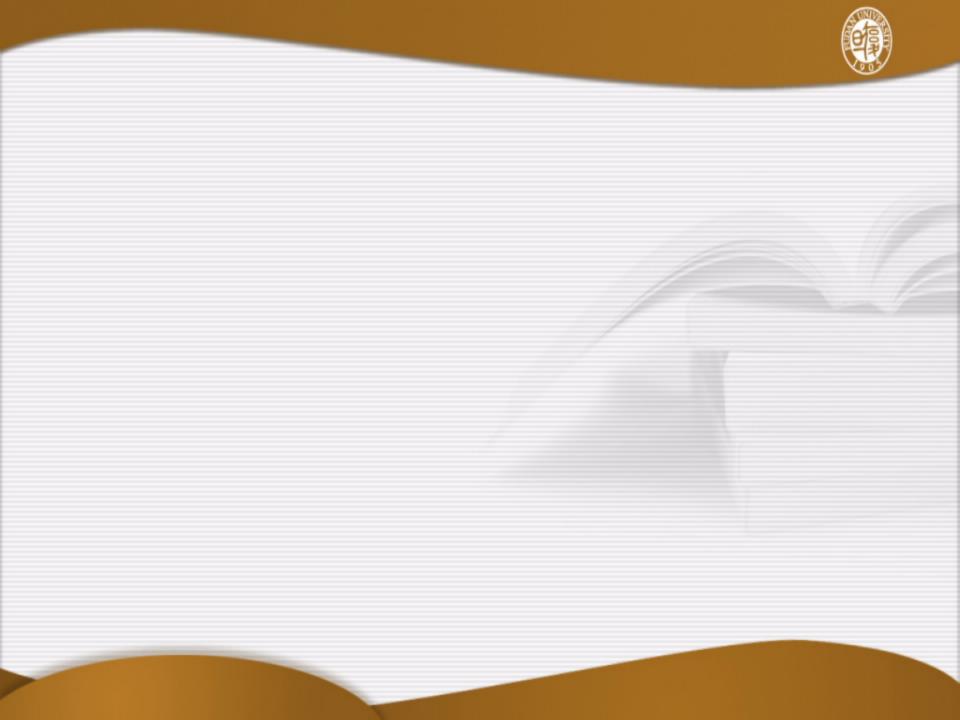
- 1. 一个活的细胞。局面8个细胞有2或3个是活的时。生存条件最佳。这个细胞下一时刻r仍但是活的。局面活细胞太多或太少则将因太洲单或太洲游面沉它。
- 2. 一个死的细胞。周围8个细胞中压紧行2/3个是距的。则程死细胞的位置阻益一个新的短细胞。

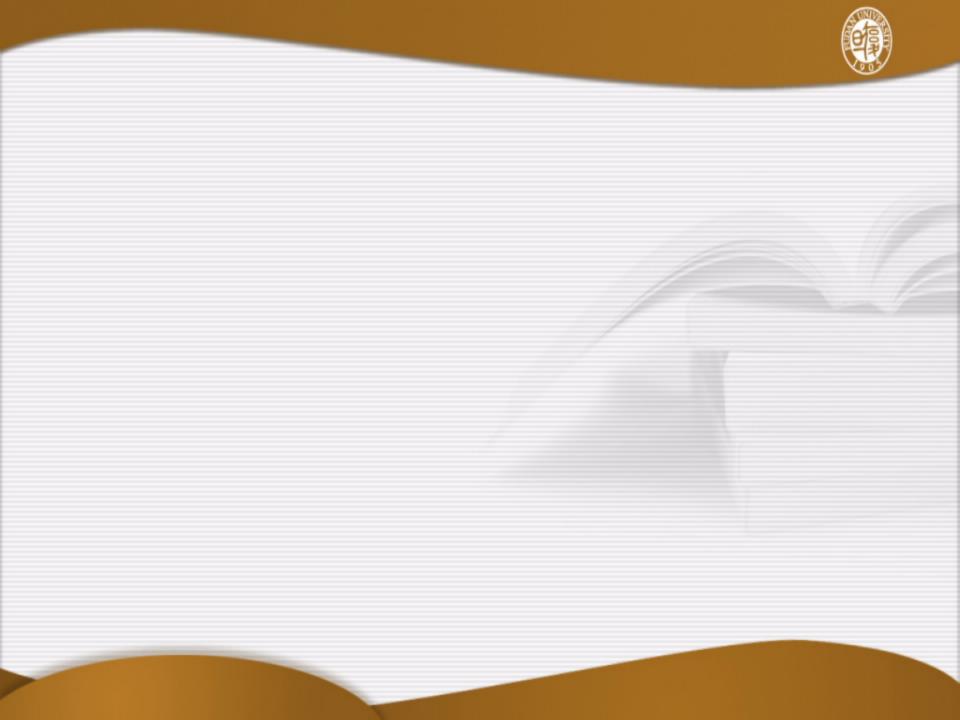


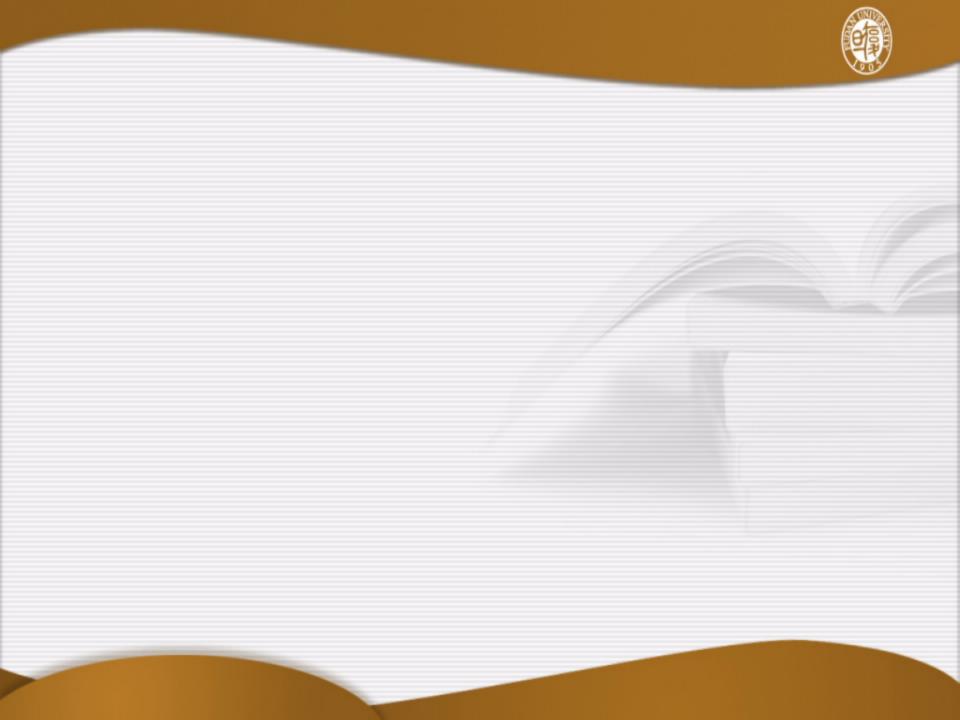
元赋——规础命至

- · 生命 游戏见引了计算机科学家。彻理学家。见理学家。生物学家。化学家。经新学家。 凯学家。 超学家。经常家。经常家。第学家。 题学家。
- 它自即常用单的规则交现 (emergence) 出即常是 杂的现象和组织结构。见引了无数玩家是导致合称 不同的程式。
 - 谷颖镜式http://www.michael-hogg.co.uk/game of life.php
 - 知识。http://www.tianfangyetan.net/cd/java/Life.html
 - http://www.bitstorm.org/gameoflife/
 - 静止型。源助型。运动型。死亡型。不定型



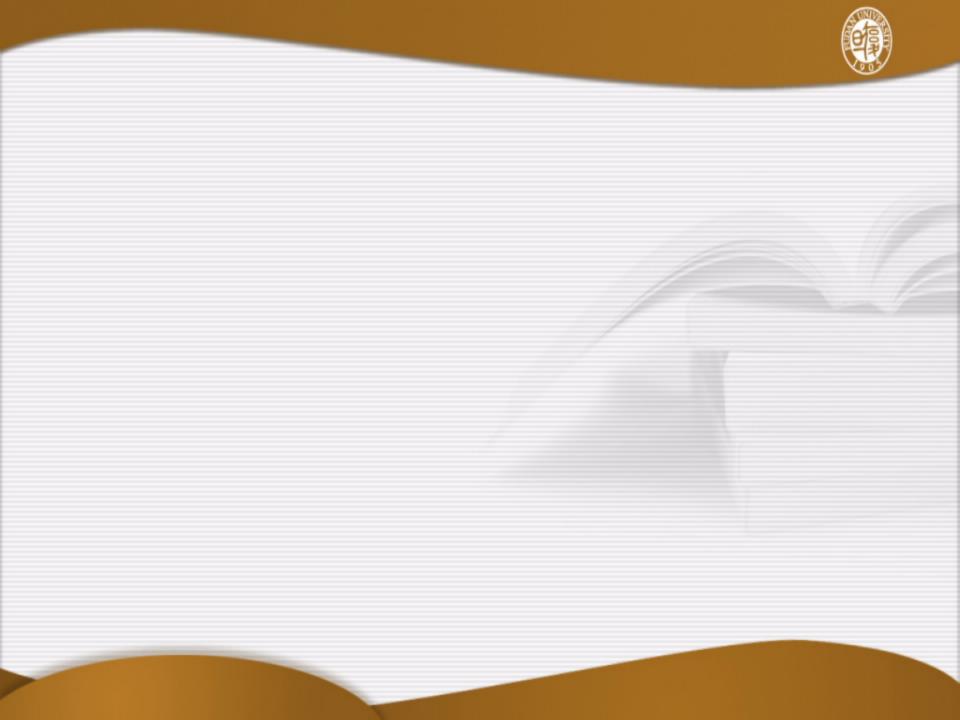


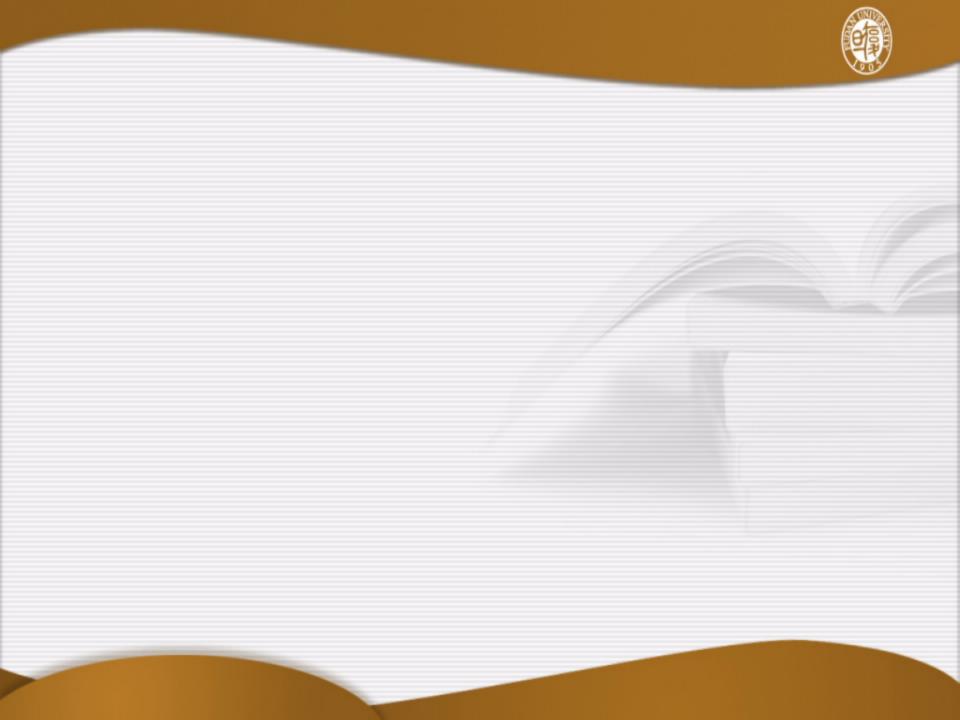


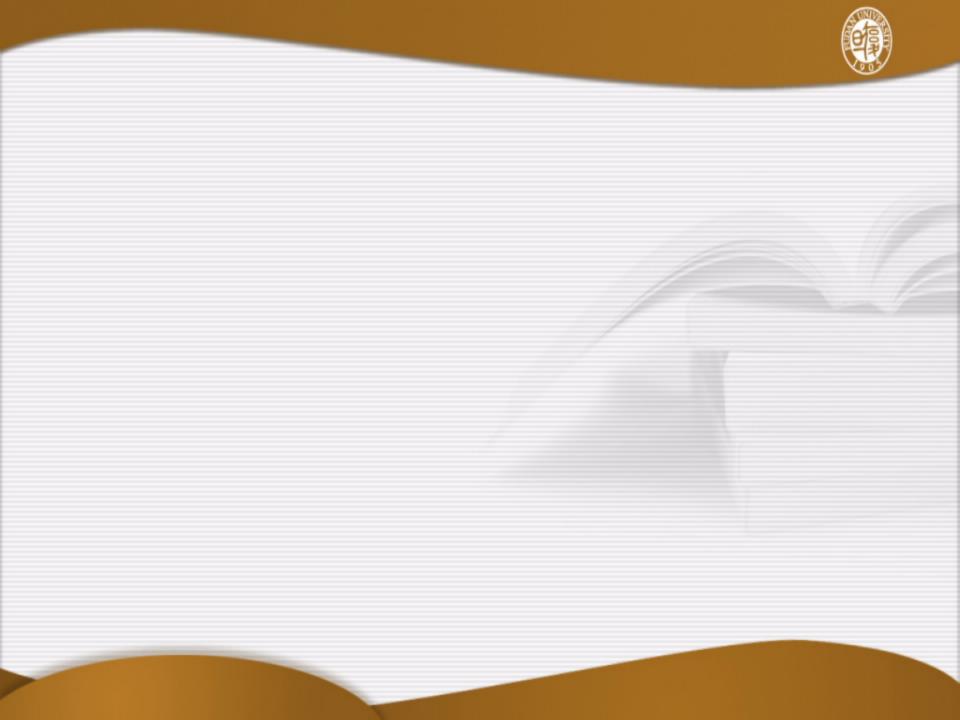




金型——銀銀色型









• 劉孕罗式電易顯疑·聂凱荷(Jonathan Mccabe)



经命题跟——人工经命

- Artificial life
- 通过人工提到全命系统,积强全全的规划。
- 計算領學家Christopher Langton1987年是Los Alamos National Laboratory 国界的"生质以及領徵 生命系统的国际会议"上景品。



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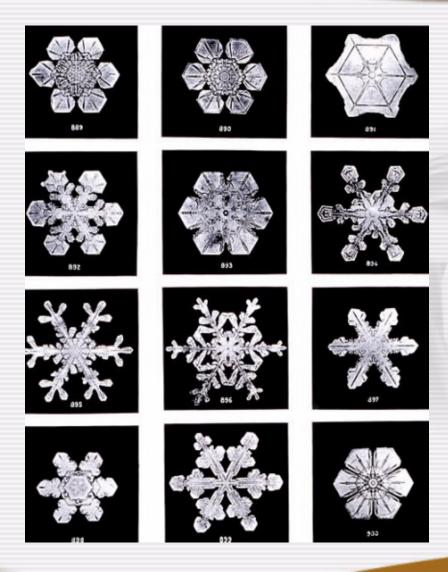


Emergence

 The whole is greater than the sum of its parts













學是透過

- http://www.ted.com/talks/brenda_brathwaite_gaming_for_understanding.html
- http://www.guokr.com/question/307421/
- http://blog.sciencenet.cn/home.php?mod=space&uid=677221&do=blog &id=631600
- http://blog.sciencenet.cn/home.php?mod=space&uid=677221&do=blog &quickforward=1&id=633882
- http://www.michael-hogg.co.uk/game_of_life.php
- http://www.tianfangyetan.net/cd/java/Life.html
- http://www.bitstorm.org/gameoflife/
- http://www.michael-hogg.co.uk/game_of_life.php
- http://blog.sina.com.cn/s/blog_b0064fa90101832g.html
- http://www.sciencenet.cn/blog/user_content.aspx?id=397828
- http://en.wikipedia.org/wiki/Emergence_Phenomenon