

Volume 1, No. 2, 2003

JOURNAL OF SOCIAL COMPLEXITY

EMERGING THE EMERGENCE SOCIOLOGY:
THE PHILOSOPHICAL FRAMEWORK OF
AGENT-BASED SOCIAL STUDIES

Hokky Situngkir

DYNAMICAL BIFURCATION:
DIFFUSION OF CRIME ON LABOR FORCE

Yun Hariadi

AGENTS PREDICTION ABILITY IN
ITS SYSTEM

Catur Budi Santoso

THE MEME OF WEARING HIJAB AMONG
FEMALE MOSLEMS

Sidik Permana A.M

INTRODUCING STUDY FUZZINESS IN
COMPLEXITY RESEARCH

Rio Siagian

DOES THE META-NARRATIVE OF THINGS
REALLY EXIST?

A Book Review of Stephen Wolfram's "A New Kind of Science"



BANDUNG FE INSTITUTE
RESEARCH UNIVERSITY ON COMPLEXITY
IN INDONESIA



President:

Sidik Permana A.M.

Board of Editorials:

Catur Budi Santoso
Hokky Situngkir
Yun Hariadi
Rio Siagian

Lay-out & Technical Management:

Rio Siagian

Publisher:

Bandung Fe Institute Press

Office:

Jl. Cijerah Tengah No.5 Bandung 40213

JAWA BARAT - INDONESIA

Fax: +62 22 6035627 Phone: +62

8156118725

e-mail: bandungfe@yahoo.com, homepage:

<http://www.bandungfe.scripsterz.org>

Bank-Account: Sidik Permana A.M. in BCA

KCP Dago, No. 7770403841

The Board of Editorials invites you to submit your donation, scientific papers on complexity, or a new book review. Your donation can be submitted to the bank account above. The Scientific Papers submitted must be original, innovative, creative, not-philosophical, and must be written in good and grammatically correct English. The good guide for this is the Chicago Manual Style. The paper sent both in hard-copy and soft-copy (in rich text format); the computer simulation source-code (if any) must be attached with specification of the operating system and programming platform the program can run well. All papers sent to the board will be selected and peer-reviewed by the Bandung Fe Institute Board of Science. The submitted paper may be the scientific conference paper or has been published previously in other scientific media (must be with notification in the submission). For more information, refer to the submission guidelines in:

<http://www.bandungfe.scripsterz.org/journal.htm>.

FOREWORD

Good Morning, Indonesia!

Honestly, it is a kind of extra-struggling for us in Bandung Fe Institute to have the ability and braveness on preceding the journal of social complexity. The Board of Science in Bandung Fe Institute has been stated that the journal will publish 4 times a year periodically. However, the period seems to be too long concerning the vast researches in Bandung Fe Institute. There have been four department built in the BFI, i.e.: Department of Computational Sociology, Department of Dynamical System Modeling, Department of Cognitive Science, and the Department of Science and Education. The four divisions have been the core of the research group and doing a lot of researches regarding their thematically divisions. Apparently, it is shown in this issue of the journal.

The main questions become the focal debates in social science since its birthday is, how the heterogeneous micro-world (individuals) behaviors generate the macroscopically regularities (and similarity) that tried to be approached by the sociologists. While the psychologists have tried to build many theories concerning individuals and by this kind of theories try to explain many things in society, the sociologists face any dilemma on many kinds of emergentism emerges in the social phenomena. The social is complex, by means that the regularity of social system is constructed by the quite simple heterogeneous rules in the interactions among individuals. Henceforth, it is impossible to generating such social theory that can explain many emergences arise in the sociological analysis by the traditional methods (and heuristically epistemology). The first paper, however, try to make a kind of the philosophical framework on this theme.

The next paper will describe the actual development of practical theory of the interaction between the macro-social phenomenon i.e. crime, and the macro-economical one, i.e.: unemployment that beautifully give us a kind of nice terminology on the crime-attractor in the practical paradigm of the unemployment. The third paper will discuss any possibility on constructing the agent-based social studies in the paradigms of contemporary psychological theories. This was done by using some perspectives in artificial neural network modeling system. The last paper shall not to be neglected is the surgery on the fuzziness of the social system we faced by using the fuzziology. The paper, nonetheless, gives some promises on the next development of the social complexity theories. The board of science also gives a review on a very fascinating work of Stephen Wolfram, entitled *The New Kind Of Science*. Differing with the usual review on the book by some physicists, the book will be reviewed by using the contemporary social theories.

It is interesting to see the dawn of social complexity in Indonesia, as the social problem emerged in many social aspects. However, the board of science must acknowledge the need for the donation and financial support for the continuation of the future researches described in the end of this issue. We also thank to friends supporting the publications of the first issue, Sri Pujianti, Andrianto ('Lemet'). We also thank Prof. Saswinadi Sasmodjo (ITB), Prof. M.T.Zen (ITB), and Dodi Rustandi for the moral support until to day. We cannot imagine our existence without them. The last pages of this issue will quote some honored people that appreciate the work we do here around the world.

Indonesia needs the social complexity for the sake of alternative voices of the social rehabilitation we have to day. However, it strongly depends upon the way we appreciate the development of the complexity science in general; the dawn of social complexity sciences. Have a good time reading!

In Crescunt Animi, Virescit Volnere Virtus!

Spirits Increase, Vigor Grows Through Wounds!

Ante-April 2003

THE WORKING PAPERS BANDUNG FE INSTITUTE PRESS RESEARCH PROGRAM 2002/2003

The working paper presented here is the technical proceeding report of the actual research by the team in Bandung Fe Institute. For the free access for the working paper refer to the homepage of Bandung Fe Institute: <http://www.bandungfe.scripsterz.org>.

You can freely download and distribute without permissions by concerning them as copyrighted papers.

Every quotation should make permission from the author or the Bandung Fe Institute Press Administration Office.

The Publication Lists of the Working Papers:

1. **WPA2002** "*Apa Yang Bisa Kita Ketahui: Memperkenalkan Humaniora Integratif Chaotik*", written by Hokky Situngkir.
2. **WPB2002** "*Sociological Strategies in Indonesian Mining Site: The Prisoner Dilemma Approach*", written by Sidik Permana, Hokky Situngkir, Yun Hariadi, Catur Budi Santoso, Rio Siagian.
3. **WPC2002** "*Psikologi Populer: Upaya Cyborgisasi Manusia?*", written by Hokky Situngkir.
4. **WPA2003** "*SDA, Masyarakat, dan Perusahaan Tambang dalam Lotka-Volterra*", written by Yun Hariadi.
5. **WPB2003** "*Inequality and Oil Subsidy in Indonesia*", written by Hokky Situngkir
6. **WPC2003** "*BBM: Harga, Threshold, Subsidi*", written by Yun Hariadi

To order the publication item in its hard-copy,
Please contact the administration office of the Bandung Fe Institute Press

CONSULTANCY & ADVISORY UNIT BANDUNG FE INSTITUTE

The Bandung Fe Institute Consultancy & Advisory Unit is independent department in Bandung Fe Institute to serve the local, national, and international public needs by using the social complexity approaches. The Bandung Fe Institute Consultancy & Advisory Unit can serve you as scientific consultant and give assistance on social management researches in community, company, and any kind of institutions needing advisory. The consultancy & advisory unit team pointed by the Board of Science of Bandung Fe Institute are high-qualified in analysis using the actual and contemporary scientific project on social simulation and modeling in cases:

Social, Cultural, and Political Simulation and Modeling
Management Research and Human Resources Development
The Social Network Analysis for any purposes
Financial Advisory in Agent Based Computational Economics.
Quantitative & Qualitative Sociological and Anthropological Analysis
Sustainable Development Programs on Environmental Issues
Community Development Survey and Research.
Educational Advisory and Consultancy

On your need for scientific advisory and consultancy, please contact the Bandung Fe Institute administration office in address:

BANDUNG FE INSTITUTE - Research University on Complexity in Indonesia
Head Office: Jl. Cijerah Tengah No.5 Bandung 40213 JAWA BARAT - INDONESIA
Fax: +62 22 6035627 Phone: +62 8156118725
e-mail: bandungfe@yahoo.com, homepage: <http://www.bandungfe.scripsterz.org>
Bank-Account: Sidik Permana A.M. in BCA KCP Dago, No. 7770403841