

# The 1st International Conference on Swarm Intelligence and Emergent Computing (SIEC 2010)

Chongqing, China, 12-14 July 2010

<http://siwn.org.uk/2010/SIEC10.htm>

Complex Adaptive Systems are widespread both in the nature and in socio-economic phenomena. A Multi-Agent Based Complex System has its dynamic behaviour that is inherently emerging as a result of intensive interactions among its massive agents. Examples of Multi-Agent Based Complex Systems include social insects, population aggregations in urbane regions, market based economy, city taxi cabs, etc. Swarm Intelligence represents a methodology for analyzing and modeling Multi-Agent Based Complex Systems, and Emergent Computing is concerned with the methodology for engineering robust, dependable, self-adaptable Multi-Agent Based Complex Systems out of massive, simple, unreliable objects, devices or units. Essentially Emergent Computing represents a new approach which takes a Collective Intelligence point of view upon all types of artificial systems, e.g., web/Internet based systems, social networking, online virtual communities, pervasive/ubiquitous computing, ambient intelligence, socio-technical systems, and so forth.

SIEC2010 aims to provide a timely international, multi-disciplinary forum on the latest theories, methods, techniques and applications in Swarm Intelligence and Emergence Computing.

## Topics

Topics of particular interest include (but not limited to) the following areas.

- (1) Biological and Scio-economic Inspirations for Swarms
- (2) Emergence and Interactions
- (3) Swarm Optimization
- (4) Emergent Computing
- (5) Applications

A detailed list of topics can be seen at the conference website.

## Submission

SIEC 2010 only accepts manuscripts of original contributions. A manuscript for submission to the Conference should neither have been published nor have been under consideration for publication elsewhere. All manuscripts submitted will be sent to 3-4 members of the International Program Committees of the Conferences for peer reviews, based on which the acceptance decision will be made.

To make a submission of manuscript, please follow the online submission of SIEC 2010 <http://www.easychair.org/conferences/?conf=siec10>

A manuscript for submission to the Conference should be prepared according to the Instructions for Authors of the Journal. Sample Word Doc and Latex file of Camera-Ready Versions (CRV) are available at <http://fatech.org.uk/press/ita.htm> There is

a page limit of 8 formatted pages for the CRV of an accepted paper. Additional pages are subject to over-length charges.

## Proceedings and Journal Publication

All accepted papers of the Conferences will be included in the electronic Proceedings of SIWN 2010, which will be available at the Conferences. At the same time, high quality papers of the Conferences will be published in the International Journal <<Communications of SIWN>> (ISSN 1757-4439) (<http://fatech.org.uk/press/cosiwn/>) at the time of the Conferences. Decisions for the Proceedings and the Journal are solely based on the technical peer reviews conducted by the International Program Committees.

## Program Chairs

Jan Sudeikat  
Multimedia Systems Laboratory, Hamburg University of Applied Sciences  
Berliner Tor 7, 20099 Hamburg, Germany  
Distributed Systems and Information Systems, Computer Science Department  
University of Hamburg, Vogt-Kolln-Str. 30, 22527 Hamburg, Germany  
E-mail: [sudeikat@informatik.haw-hamburg.de](mailto:sudeikat@informatik.haw-hamburg.de)

Professor Yu Wu  
Network and Computation Research Center  
Chongqing University of Posts and Telecommunications  
Chongqing 400065, China  
E-mail: [wuyu@cqupt.edu.cn](mailto:wuyu@cqupt.edu.cn)

## International Program Committee

Sherif Abdelwahed, USA	Olga Ormandjieva, Canada
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## Important Dates

9 April 2010	Submission of manuscripts
30 April 2010	Notification of acceptance
28 May 2010	Camera-Ready Version (CRV) due

## Technical Support:

IEEE SMCS Technical Committee on Self-Organized Distributed and Pervasive Systems (TC-SODPS)  
Foresight Academy of Technology