# **CURRICULUM VITAE**

(last updated: August 04, 2025)

#### Meesoon Ha

#### Professor

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## **Research Interests**

I am interested in the applications of statistical physics in terms of simple minimal model studies with essential features of complex systems. The below research topics are what I am currently involved in:

- Phase transitions: Finite-size scaling and universality class; Quantum & Stochastic thermodynamics
- Kinetic roughening and multifractality in thin film growth processes; Multiscale nature
- Nonequilibrium stochastic processes: Self-organized criticality; Synchronization
- Dynamics on and of complex networks: Epidemic process; Social contagion; Neuroscience
- Patterns and collective behavior in granular media and/or colloidal particle systems
- Random constraint satisfaction (NP-complete) problems: K-SAT and Q-COL
- Glass and jamming transitions with dynamic heterogeneity; Disordered systems; Econophysics

#### **Professional Experience**

•	2022.09 2024.08.	Chairperson, Dept. of Physics Education, Chosun University
•	2022.03 present	Professor, Dept. of Physics Education, Chosun University
•	2019.08 2020.07.	Visiting Associate Professor, Dept. of Physics, University of Washington
•	2017.03 2022.02.	Associate Professor, Dept. of Physics Education, Chosun University
•	2017.03 2019.02.	Chairperson, Dept. of Physics Education, Chosun University
•	2011.03 2017.02.	Assistant Professor, Dept. of Physics Education, Chosun University
•	2007 - 2011	BK21 Research Professor, Dept. of Physics
		Korea Advanced Institute of Science and Technology (KAIST)
•	2006 - present	Associate Member, School of Physics, KIAS
•	2006 - 2007	Brain Korea 21 (BK21) Endowed Professor
		Dept. of Physics, Chonbuk National University
•	2003 - 2006	Postdoctoral Research Fellow, School of Physics
		Korea Institute for Advanced Study (KIAS)
•	1997 - 2003	RA and TA, Dept. of Physics, University of Washington, U.S.A.
•	1995 - 1996	Part-time Lecturer & Staff of General Physics Lab
•	1993 - 1995	Research Assistant (RA) and Teaching Assistant (TA)
		Dept. of Physics, Korea University

#### Official Visits

• 2018 summer; 2014; 2013; 2012

Prof. Bae-Yeun Ha's group

Dept. of Physics and Astronomy, University of Waterloo, Waterloo, Canada

 $\bullet \quad 2024.08.02. \ -\ 10; \ 2023.02.13. \ -\ 20 \ ; \ 2019.02.06. \ -\ 14.; \ 2018.01.07. \ -\ 15.; \ 2017.01.21. \ -\ 27.;$ 

2011.12.28. - 2012.01.20.

Prof. Marcel den Nijs' group

Dept. of Physics and Astronomy, University of Washington, Seattle, U.S.A.

[see http://faculty.washington.edu/london/index.html]

● 2008.05.10. - 06.01. Nordic Institute for Theoretical Physics, Stockholm, Sweden

"Physics of Distributed Information Systems" (PhysDIS) program and workshop

[see http://agenda.albanova.se/conferenceDisplay.py?confId=296]

• 2006.11.06. - 12.01.

Prof. M. Paczuski's complexity science group

Dept. of Physics and Astronomy, University of Calgary, Calgary, Canada

[see http://www.ucalgary.ca/complexity/people/faculty/maya] Prof. H. Park's group, School of Physics, KIAS, Korea

• 2002.12.23. - 2003.01.23.

1

#### Education

- 1997 2003 Ph.D. in Physics at the University of Washington, Seattle, U.S.A.
   Specialty: Condensed-Matter Theory and Statistical Physics; Ph.D. dissertation with Prof. Marcel den Nijs
   "Scaling and phase transitions in 1D nonequilibrium driven systems"
- 1993 1995 M.S. in Physics at Korea University, Seoul, Korea
   Specialty: Statistical Physics; M.S. thesis with Prof. In-mook Kim and Prof. Hyunggyu Park
   "Dynamic properties of one-dimensional nonequilibrium interfaces"
- 1989 1993 B.S. in Physics at Inha University, Inchon, Korea

## **Awards and Honors**

- 2025.04.30. Plaque of Appreciation for NPSM Editor (2016 2025), KPS
- Award for the Best Teacher (ABT) for 2019-1, 2020-2, 2021-1,2 at EIC, Chosun University
- 2017.02.23. Best Professor for Class Evaluation in College of Education, Chosun University
- 2016.02.15. & 10.14. ACE Best Teacher at Fall 2015 & Spring 2016, Chosun University
- 2010.09.28. "Marquis Who's Who in the World 2011 (28th edition)" Selection & Inclusion
- 2010.04.21. Yong-Bong Prize (under 40-year-old stat. physicist) at Korean Physical Society
- 2001 Full scholarship at International Summer School (FPSPX), Altenberg, Germany
- 1994.03.26. & 09.10. Backwoon private fellowships at Korea University, Seoul, Korea
- 1990 1992 Honor student scholarships at Inha University, Inchon, Korea

# **Professional Memberships and Activities**

- Chairperson, Dept. of Physics Education at CSU, March 2017 February 2019; September 2022 August, 2024
- Editor, PHYSICS & HIGH TECHNOLOGY, May 2021 April 2024; NPSM (KPS), May 2016 April 2025
- Appointed Admission Interviewer at Chosun University (CSU), 2013 2019; 2024 ~ present
- Member of Local Organizing Committee, STATPHYS 25, July 22 26, 2013
- Reviewer, National Research Foundation (NRF Korea) proposal since 2010
- Appointed Admission Interviewer at KAIST, 2009 & 2010
- Referee, NPSM, JKPS, PRL, PRE since 2007; JSTAT since 2008; CEJP, Phys. Lett. A, EPL since 2010; EPJB, JPA since 2015; Scientific Report since 2016; Aerospace and Sustainability since 2018
- Reviewer, National Science Foundation (NSF U.S.A.) proposal since 2007
- Member, Molecular Dynamics simulation Research Group (MDRG), 2007
- Member, 2030 Kangwon Frontier Brain (youngman) Group since 2007
- Member, The APS since 1997 (NW section, 1998), The KPS since 1994 (Division of SP, 2003)
- Mentor, 1st year physics graduate students at the University of Washington (UW), 2002 2003
- Volunteer and member, The CDO for Physicists and Astronomers at the UW, 2001 2003

#### Grants

- \* National Research Foundation (NRF) of Korea, grant funded by the Korean government Senior Researchers for 5 years (March 2020 - February 2025); Qualified Scientists in Local Universities for 3+3 years (June 2014 - May 2020); Female Scientists - since May 2011 for 3 years (May 2011 - April 2014).
- \* Chosun University Research Fund (October 2024 September 2025, 2020; 2019; 2018; 2013; 2011)

#### Computer Skills

- Extensive knowledge: Unix, Linux, Windows/OS2, C/C++, LaTeX, Gnuplot, Xfig, Overleaf
- Working knowledge: Mathematica, Origin, Fortran, HTML, MacOS, MS Office, ZOOM
- Familiar with: MatLab, Maple, Photoshop, Xmgrace, Python, Julia, Colab, Jupyter, OBS

## Personal Data

- Date and Place of Birth: December 07, 1970, Seoul, Korea (ROK)
- Languages: Fluent in Korean and American English Marital status: Married, One child

# List of Publications

(last updated: August 04, 2025)

# Journal articles, preprints, and in preparation

(in preparation) [56] "Scaling analysis in range expansion of epidemic processes". M. Ha (in preparation) [55] "Role of initial conditions in dynamic scaling analysis of synchronization", W. Kwak, C. Choi, and M. Ha (in preparation) (to be submitted soon) [54] "Inertial effect on synchronization of globally coupled oscillators", C. Choi and M. Ha (to be submitted) [53] "Dynamic crossover of Ising spins coupled to nonlinear growth", Y. Baek, M. Ha, H. Park, and M. den Nijs (to be submitted) [52] "Percolation transitions in spatial multiplex networks with long-range links", G. Son, M. Ha, and H. Jeong (to be submitted) [51] "Scaling properties in diffusive epidemic processes with relative bias", (to be submitted) [50] "Spatio-temporal Pattern Analysis of Epidemic Processes with Temporal Feedbacks". (to be submitted) M. Ha (submitted/accepted) [49] "Anomaly, Class Division, and Decoupling in Wealth Dynamics " J. Hur, M. Ha, and H. Jeong (arXiv:2506.08175v2; submitted to PRL; under review) (published journal articles) [48] "Semantic Network Analysis of Achievement Standards in Physics of 2022 Revised Curriculum" J. Seo, J. Cho, S. Han, and M. Ha [New Physics: Sae Mulli 74, 944 (2024)] [47] "Interplay of network structure and talent configuration on wealth dynamics" [Physical Review E <u>110</u>, 024312 (2024)] J. Hur, M. Ha, and H. Jeong [46] "Hidden multiscale organization and robustness of real multiplex networks", G. Son, M. Ha, and H. Jeong [Physical Review E 109, 024301 (2024)] [45] "Scaling Relations between Regional School-age Population Density and Densities of College Departments and Students by Majors" (written in Korean), J. Seo, G. Gim, S. Kim, M. Ha, and S.H. Lee [New Physics: Sae Mulli 73, 853 (2023)] Selected Highlight Paper [44] "Quantumness and thermodynamicuncertainty relation of the finite-time Otto engine", S. Lee, M. Ha, and H. Jeong [Physical Review E 103, 022136 (2021)] [43] "Driven Contact Process with Temporal Feedback", M. Ha [New Physics: Sae Mulli 70, 613 (2020)] [42] "Finite-time quantum Otto engine: Surpassing the quasi-static efficiency due to friction", S. Lee, M. Ha, J.-M. Park, and H, Jeong [Physical Review E 101, 022127 (2020)] [41] "Passive tracer dynamics in slow-bond problem", [Journal of Statistical Mechanics (2019) P09409] H. Soh, and M. Ha [40] "Impact on temporal connectivity patterns in epidemic process", [Eur. Phys. J. B 91, 161 (2019)] H. Kim, M. Ha, and H. Jeong [39] "Critical Phenomena in Generalized Epidemic Process", [New Physics: Sae Mulli 69, 649 (2019)] M. Ha

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W. Kwak and M. Ha
                                                  [Journal of the Korean Physical Society 74, 918 (2019)]
[37] "Role of hubs in the synergistic spread of behavior".
 Y. Baek, K. Chung, M. Ha, H. Jeong, and D. Kim
                                                               [Physical Review E 99, 020301(R) (2019)]
[36] "Dynamic topologies of activity-driven temporal networks with memory",
                                                                  [Physical Review E <u>97</u>, 062148 (2018)]
   H. Kim, M. Ha, and H. Jeong
[35] "Role of Cutoff Scaling in Scale-Free Networks",
                                                                [New Physics: Sae Mulli 68, 563 (2018)]
   M. Ha
[34] "Jamming and condensation in one-dimensional driven flow",
                                                                  [Physical Review E <u>97</u>, 032120 (2018)]
   H. Soh, M. Ha, and H. Jeong
[33] "Finite-Size Scaling in q-Coloring Problems",
                                                               [New Physics: Sae Mulli 67, 1023 (2017)]
   M. Ha
[32] "Effects of a local defect on one-dimensional nonlinear surface growth",
                                                                 [Physical Review E 95, 042123 (2017)]
   H. Soh, Y. Baek, M. Ha, and H. Jeong
[31] "Generalized Conserved Lattice Gas on Random Networks",
                                                              [New Physics: Sae Mulli 66, 1210 (2016)]
   W. Kwak, S. Park, and M. Ha
[30] "Universality classes of generalized epidemic process on random networks",
   K. Chung, Y. Baek, M. Ha, H. Jeong
                                                                 [Physical Review E 93, 052304 (2016)]
[29] "Scaling properties in time-varying networks with memory",
   H. Kim, M. Ha, and H. Jeong
                                                                       [Eur. Phys. J. B 88, 315 (2015)]
[28] "Spatial Correlations and Extended Self-Similarity Properties in Sandpiles",
                                                              [New Physics: Sae Mulli 65, 1009 (2015)]
   M. Ha
   Selected Highlight Paper
[27] "Effects of junctional correlations in the TASEP on random regular networks",
   Y. Baek, M. Ha, and H. Jeong
                                                                 [Physical Review E 90, 062111 (2014)]
[26] "Dynamic Scaling Analysis of Critical Behaviors in Nonequilibrium Processes",
   M. Ha
                                                               [New Physics: Sae Mulli 64, 819 (2014)]
[25] "Generalized epidemic process on modular networks",
   K. Chung, Y. Baek, D. Kim, M. Ha, and H. Jeong
                                                                [Physical Review E 89, 052811 (2014)]
[24] "Expansion dynamics of a self-avoiding polymer in a cylindrical pore",
   Y. Jung, C. Jeon, M. Ha, and B. Ha
                                                                              [EPL, 104 (2013) 68003]
[23] "Extended finite-size scaling of synchronized coupled oscillators",
   C. Choi, M. Ha, and B. Kahng
                                                                [Physical Review E 88, 032126 (2013)]
[22] "Stochastic Local Search in Random Constraint Satisfaction Problems",
                                                              [New Physics: Sae Mulli 63, 995 (2013)]
[21] "Impact of sequential disorder on the scaling behavior of airplane boarding time",
   Y. Baek, M. Ha, and H. Jeong
                                                               [Physical Review E 87, 052803 (2013)]
[20] "Numerical Study of Synchronization in the Kuramoto Model with Finite Inertia",
   C. Choi and M. Ha
                                                              [New Physics: Sae Mulli 62, 958 (2012)]
   Selected Highlight Paper
[19] "Fundamental Structural Constraint of Random Scale-Free Networks",
   Y. Baek, D. Kim, M. Ha, and H. Jeong
                                                          [Physical Review Letters 109, 118701 (2012)]
[18] "Kinetic roughening in polymer thin film growth",
   M. Ha
                                                                 [Physics Procedia 64 (2012) pp. 44-48]
[17] "Absorbing states of zero-temperature Glauber dynamics in random networks",
   Y. Baek, M. Ha, and H. Jeong
                                                                 [Physical Review E 85, 031123 (2012)]
[16] "Effect of Blockage on Driven Flow with Periodic Boundary Conditions",
   M. Ha
                                                               [New Physics: Sae Mulli 61, 909 (2011)]
[15] "Finite-size scaling in random K-satisfiability problems (K-SAT)",
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[38] "Effect of Thermal Noise on Conserved Lattice Gas".

S.H. Lee, M. Ha, C. Jeon and H. Jeong

[Physical Review E 82, 061109 (2010)]

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[14] "Universality classes and crossover behaviors in non-Abelian directed sandpiles",
                                                                   [Physical Review E 82, 041101 (2010)]
   H.-H. Jo and M. Ha
[13] "Critical behavior of Ising model in annealed scale-free networks",
   S.H. Lee, M. Ha, H. Jeong, J.D. Noh, and H. Park
                                                                   [Physical Review E 80, 051127 (2009)]
[12] "Instability transitions and ensemble equivalence in diffusive flow",
                                                      [Central European Journal of Physics 7, 575 (2009)]
   M. Ha
[11] "Anomalous scaling behavior in polymer thin film growth by vapor deposition",
                                                          [Journal of Statistical Mechanics (2009) P02031]
   S.-W. Son, M. Ha, and H. Jeong
[10] "Relevance of Abelian Symmetry and Stochasticity in Directed Sandpiles",
                                                             [Physical Review Letters 101, 218001 (2008)]
   H.-H. Jo, and M. Ha
 [9] "Boundary-induced abrupt transition in the symmetric exclusion process".
   A.Nagar, M. Ha, and H. Park
                                                                   [Physical Review E 77, 061118 (2008)]
 [8] "Dynamic instability transitions in 1D driven diffusive flow with nonlocal hopping",
                                                                   [Physical Review E 75, 061131 (2007)]
   M. Ha, H. Park, and M. den Nijs
 [7] "Finite-Size Scaling in Complex Networks".
                                                              [Physical Review Letters 98, 258701 (2007)]
   H. Hong, M. Ha, and H. Park
 [6] Comment on "Non-Mean-Field Behavior of the Contact Process on Scale-Free Networks",
   M. Ha, H. Hong, and H. Park
                                                              [Physical Review Letters <u>98</u>, 029801 (2007)]
   Virtual Journal of Biological Physics Research 13, issue 2 (2007).
 [5] "Queuing transitions in the asymmetric simple exclusion process",
   M. Ha, J. Timonen, and M. den Nijs
                                                                  [Physical Review E 68, 056122 (2003)]
 [4] "Effect of a columnar defect on the shape of slow-combustion fronts",
   M. Myllys, J. Maunuksela, J. Merikoski, J. Timonen, V.K. Horváth, M. Ha, and M. den Nijs
                                                                   [Physical Review E 68, 051103 (2003)]
 [3] "Macroscopic car condensation in a parking garage",
   M. Ha, and M. den Nijs
                                                                  [Physical Review E 66, 036118 (2002)]
 [2] "Particle dynamics in a mass-conserving coalescence process",
   M. Ha, H. Park, and M. den Nijs
                                                                  [Journal of Physics A <u>32</u>, L495 (1999)]
 [1] "Exact solutions of a restricted ballistic deposition model on a 1D staircase",
   H. Park, M. Ha, and I.-M. Kim
                                                                     [Physical Review E 51, 1047 (1995)]
Unpublished Projects (Pj) & Preprints (Pp)
 [Pj2] "Population dynamics of free antimicrobial peptides (AMPs) and growing bacteria".
   M. Ha, Y. Jung, and B.-Y. Ha
 [Pj1] "Universality class of (2+1)-d polymer thin film growth by vapor deposition",
   S.-W. Son, M. Ha, I.J. Lee, and H. Jeong
   (in revision/pending)
 [Pp3] Comment on "Fluctuation theorem for hidden entropy production",
   Y. Baek, M. Ha, H. Jeong, and H. Park
                                                                (in revision; arXiv:1402.1235v3)
 [Pp2] "Nonlinear stability of phase-locked states for the Kuramoto model with finite inertia",
   Y.-P. Choi, C. Choi, M. Ha, S.-Y. Ha
                                                               (in revision; arXiv:1112.2763v1)
 [Pp1] "Role of power-law type long-term memory in the contact process",
   M. Ha, S. Kwon, H.S. Park, and H. Park
                                                                                (KIAS preprint)
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# List of Presentations

(last updated: August 04, 2025)

#### International: Invited & Contributed Talks

(45 international talk only shown here)

- 45. International Workshop: Efficient Numerical Analysis in Complex Science at MPI-PKS, Dresden, Germany [05/19-23, 2025]: "Quasi Long-range Order and Local Faceting in 1D Surface".
- 44. KIAS-KU International Workshop: Theoretical Challenges in Network Science at KIAS, Seoul, Korea [11/04-08, 2024 (invited)]: "Revisited Finite-Size Scaling of Random Constraint Satisfaction Problems".
- 43. STATPHYS28 at University of Tokyo, Tokyo, Japan [08/07-11, 2023]: "Quasi-long-range order and local faceting during interface growth".
- 42. The 15<sup>th</sup> Asia Pacific Physics Conference (APPC15): Online Conference [08/21-26, 2022]: "Growing Interfaces coupled with Ising spin dynamics".
- 41. International Workshop on Multiplex Brain Networks

(Korea-Canada Cooperative Development Workshop 2022)

at Univ. of Calgary and the BIRS, Banff, Canada

[04/21-24, 2022 (invited)]: "Scaling properties of activity-driven temporal networks with memory".

- 40. Non-equilibrium Collective Phenomena (NCP 2021) Workshop
  - at Gyeongju Hilton, Gyeongju, Korea

[09/27-10/01, 2021]: "Role of Diffusion and Temporal Feedback in Epidemic Processes".

- 39. Roles of heterogeneity in non-equilibrium collective dyanmics (RHINO 2021)
  - at Pohang Internation Center, Pohang, Korea

[08/17-19, 2021]: "Epidemic Process with Temporal Feedbacks".

- 38. Power-net 2021: Complex network approaches towards stable power grids:
  - Online ZOOM Satellite Meeting on NETWORKS 2021 via WHOVA

[07/01, 2021]: "Dynamic scaling of synchronization transitions in Kuramoto oscillators".

- 37. APCTP Workshop: Roles of Heterogeneity in Non-equilibrium collective dynamics (RHINO 2019) at APCTP Headquarter, Pohang, Korea
  - [07/15-17, 2019]: "Role of Heterogeneity in epidemic processes".
- 36. XXVI Sitges Conference on Statistical Mechanics: New Trends in Statistical Physics

(50th years of the Sitges Conference)

at Hotel Calipolis, Sitges, Sweden

[05/27-31, 2019]: "Mixed-Order Transitions in the GEP".

- 35. The 7<sup>th</sup> International Conference on Complex Networks and Their Applications: COMPLEX NETWORKS 2018 at University of Cambridge, Cambridge, United Kingdom
  - [12/11-13, 2018]: "Interplay of hubs and cooperation in social contagion".
- 34. New Trends in Nonequilibrium Statistical Mechanics: Classical and Quantum Systems (nesmcq18)

at Ettore Majorana Centre for Scientific Culture, Erice, Italy

[07/23-21, 2018]: "Role of Localized Defect in 1D Driven Diffusive Flow".

- 33. The 8<sup>th</sup> KIAS Conference on Statistical Physics (NSPCS 2018) at KIAS, Seoul, Korea [07/09-12, 2018]: "Universal Properties of Complex Contagions".
- 32. BIFI International Conference 2018: Complexity, Networks, and Collective Behavior at Patio de la Infanta, Zaragoza, Spain

[02/06-08, 2018]: "Role of Structural Heterogeneity in Generalized Epidemic Process".

31. The 9<sup>th</sup> International Conference of Nonlinear Science: Dynamic Days Asia Pacific 9 (DDAP9) at Hong Kong Baptist University, Hong Kong, China

[12/14-17, 2016]: "Relevance of columnar defect in KPZ growing interface".

- 30. STATPHYS26 at Lyon, France [07/18-22, 2016]: "Cooperative Effects on Epidemic Dynamics".
- 29. The 7<sup>th</sup> KIAS Conference on Statistical Physics (NSPCS 2016) at KIAS, Seoul, Korea [07/04-07, 2016]: "Role of Bias in Generalized Contact Process".
- 28. International School and Conference on Networks Science (NetSci 2016) at K-Hotel, Seoul, Korea [05/30-06/03, 2016]: "Dynamic Scaling in Synchronization of Coupled Oscillators on Complex Networks"

27. DYCOSC15 - International Workshop on Dynamics of Coupled Oscillators:

40 years of the Kuramoto Model at MPIPKS, Dresden, Germany

[07/27-31, 2015]: "Dynamic scaling and universality class in synchronization".

26. The 113<sup>th</sup> Statistical Mechanics Conference at Rutgers University, New Brunswick, NJ, U.S.A. [05/10-12, 2015]: "Universality Class of GEP on Modular Networks" (short talk).

25. STATPHYS25 at Seoul Natopnal University, Seoul, Korea

[07/22-26, 2013]: "Dynamic finite-size scaling and universality issues in synchronization".

24. Patterns & waves in populations of cells and active particles:

Satellite Meeting of STATPHYS25 at Korea University, Seoul

[07/19-20, 2013]: "Time Evolution of Phase Synchronization in Coupled Oscillators".

23. The APS 2013 March Meeting, Baltimore, MD, U.S.A.

[03/18-22, 2013]: "Dynamic Scaling of Synchronization in Kuramoto-type Globally Coupled Oscillators".

 Workshop on the Open Problems of the Glass Transition and Related Topics, Kyushu University Nishi-Jin Plaza, Fukuoka, Japan

[12/16-20, 2012]: "Glassy Behaviors in Random Constraint Satisfaction Problems".

21. The 7<sup>th</sup> International Conference of Nonlinear Science: Dynamic Days Asia Pacific 7 (DDAP7) and the 11<sup>th</sup> Taiwan International Symposium on Statistical Physics at Academia Sinica, Taipei, Taiwan [08/06-09, 2012]: "Applications of Absorbing Phase Transitions in Random Networks".

20. 2012 - 25<sup>th</sup> Annual Workshop of Center for Simulational Physics at University of Georgia: Recent Developments in Computer Simulational Studies in Condensed Matter Physics, Athens, GA, U.S.A. [02/20-24, 2012]: "Kinetic Roughening in Polymer Thin Film Growth".

19. Feza Gürsey Institute - Imperial College

International Summer School and research workshop on Complexity, Istanbul, Turkey [09/05-10, 2011]: "Q-Coloring Problems in Complex Networks".

18. The 105<sup>th</sup> Statistical Mechanics Conference at Rutgers University, New Brunswick, NJ, U.S.A. [05/08-10, 2011]: "Contact Process with Long-term Memory and Branching Bias" (short talk).

 APCTP Workshop on Current Progress of Simulations in Complex Systems at APCTP headquarters, Pohang, Korea

[11/15-17, 2010 (invited)]: "Critical Behaviors of Stochastic-Local-Search Algorithms in Random CSPs".

16. The 4<sup>th</sup> KIAS Conference on Statistical Physics (NSPCS 2010):

Satellite Meeting of STATPHYS24 at KIAS, Seoul, Korea

[07/26-29, 2010]: "Finite-Size Effects on Critical Behaviors in Random K-SAT".

15. STATPHYS24 at Convention Center, Cairns, Australia

[07/18-23, 2010]: "Universality Class of Polymer Thin Film Growth in (1+1) and (2+1) dimensions".

14. New Frontiers in Complex Networks (NFCN 2010):

STATPHYS24 satellite meeting at SNU, Seoul, Korea

[07/12-16, 2010 (invited)]: "Critical behaviors in random constraint satisfaction problems".

13. International Workshop on Statistical Physics and Computer Science (SPCS 2010):

Satellite Meeting of STATPHYS24 at KITPC, Beijing, China

[07/08-11, 2010]: "Phase transitions and critical behaviors in random k-satisfiability problems".

12. The APS 2010 March Meeting, Portland, OR, U.S.A.

[03/15-19, 2010]: "Finite-Size Scaling (FSS) in Random K-Satisfiability Problems (K-SAT)".

11. APCTP Symposium on Fields of Special Interests in Theoretical Physics

at APCTP Headquarters, Pohang

[11/30-12/01, 2009 (invited)]: "Critical Phenomena in Critical Phenomena: Universality Perspective".

10. The 6<sup>th</sup> APCTP-KIAS Winter School on Statistical Physics at POSCO International Center, POSTECH, Pohang [02/04-06, 2009 (invited)]:

"Why is Asymmetric Simple Exclusion Process still so popular? Not a just toy model?".

9. International Conference on Complex Networks: *The Past 10 Years and Future* at SNU, Seoul [12/19-22, 2008]: "Numerical Study of Statistical Models on Scale-Free Networks with Size-Dependent Cutoff".

8. The 5th International Conference of Nonlinear Science: Dynamic Days Asia Pacific 5 (DDAP5)

at Nara Prefectural New Public Hall, Nara, Japan

[09/09-12, 2008]: "Anomalous scaling behavior in polymer thin film growth".

7. SigmaPhi2008

at Orthodox Academy of Crete, Kolympari-Chania, Greece

[07/14-18, 2008]: "Instability transition and ensemble equivalence in diffusive flow".

- 6. The "Physics in Distributed Information Systems" (PhysDIS) workshop at NORDITA, Stockholm, Sweden [05/15-17, 2008 (invited talk)]: "FSS in complex networks".
- 5. The 10<sup>th</sup> Asia Pacific Physics Conference (APPC10) at POSCO International Center, POSTECH, Pohang, Korea [08/21-24, 2007]: "Dynamic behavior of 1D driven diffusive flow with nonlocal hopping".
- 4. The 4<sup>th</sup> International Conference of Nonlinear Science: Dynamic Days Asia Pacific 4 (DDAP4) at POSTECH, Pohang, Korea [07/12-14, 2006]: "FSS in complex networks".
- 3. The 2<sup>nd</sup> KIAS Conference on Statistical Physics (NSPCS06) at KIAS, Seoul, Korea [07/03-06, 2006 (invited)]: "FSS in complex networks".
- 2. The 89<sup>th</sup> Statistical Mechanics Conference at Rutgers University, New Brunswick, NJ, U.S.A. [05/18-20, 2003]: "Queuing transitions in 1D drive flow due to an obstruction" (short talk).
- 1. The APS 2001 March Meeting, Seattle, WA, U.S.A. [03/12-16, 2001]: "Dynamic analogue of Bose condensation in a traffic model with a parking garage".

#### **Domestic: Invited & Contributed Talks**

- (43 domestic talk only shown here)
- 43. Gwangju-Chonnam KPS 2023 Annual Meeting at Chonnam National University, Gwangju, Korea [12/15, 2023]: "Universal Scaling in Temporal Synchronization".
- 42. G-Fair Special Session at Gwangju, Chonnam National University, Korea [11/15, 2023]: "Scaling Analysis of Higher Education Disparity in Korea".
- 41. The KPS 2021 Fall Virtual Meeting, Korea [10/20-22, 2021]: "Dynamic Scaling of Growing Interfaces coupled with Ising spin dynamics"
- 40. The KPS 2020 Fall Virtual Meeting, Korea [11/04-06, 2020]: "Universal scaling behaviors of epidemic models near the criticality".
- STATPHYS Monthly Meeting sponsored by APCTP Topical Program
  on "Statistical Physics of Disordered, Non-equilibrium and Complex Systems" at KIAS, Seoul, Korea
  [05/18, 2019]: "Phase Transitions and/or Crossover Scaling Behaviors".
- 38. Gwangju-Chonnam KPS 2018 Annual Meeting at Chonnam National University, Gwangju, Korea [12/20, 2018 (invited)]: "Mixed-Order Transitions in Spread of Behavior".
- 37. The KPS 2018 Fall Meeting at CECO, Changwon, Korea [10/24-26, 2018 (invited)]: "Effects of the threshold for cooperation on social contagions"
- 36. The KPS 2018 Spring Meeting at DCC, Daejeon, Korea [04/25-27, 2018]: "Cutoff-dependent finite-size scaling in scale-free networks".
- 35. Gwangju-Chonnam KPS 2017 Annual Meeting at Chonnam National University, Gwangju, Korea [12/21, 2017]: "Dynamic Scaling in Activity-Driven Temporal Networks".
- 34. STATPHYS Monthly Meeting sponsored by APCTP Topical Program on "Statistical Physics of Disordered, Non-equilibrium and Complex Systems" at KIAS, Seoul, Korea [12/09, 2017]: "Particle-jamming and hole-condensation in 1D driven flow".
- 33. The KPS 2017 Spring Meeting at DCC, Daejeon, Korea [04/19-21, 2017]: "Finite-size scaling of the slow-bond problem of TASEP".
- 32. Gwangju-Chonnam KPS 2015 Annual Meeting at Chosun University, Gwangju, Korea [12/22, 2015 (invited)]: "Extended Finite-Size Scaling in Epidemic Models".
- The KPS 2015 Fall Meeting at HICO, Gyeongju, Korea [10/21-23, 2015)]: "Generalized Epidemic Process on Scale-Free Networks" (designated speaker).
- 30. Gwangju-Chonnam KPS 2014 Annual Meeting at Chonnam National University, Gwangju, Korea [12/23, 2014]: "Phase Transitions in Generalized Epidemic Process".
- 29. The KPS 2014 Fall Meeting at KDJCC, Gwangju, Korea [10/22-24, 2014]: "Finite-Size Scaling in the KPZ-related Sign Phase Transition".
- 28. STATPHYS Monthly Meeting sponsored by APCTP Topical Program on "Statistical Physics of Disordered, Non-equilibrium and Complex Systems" at KIAS, Seoul, Korea [06/21, 2014]: "Role of Disorder in Critical Behaviors of Nonequilibrium Processes".
- 27. The 4<sup>th</sup> Workshop on Non-Equilibrium Fluctuation Theorem at SEACLOUD Hotel, Busan, Korea [01/12-14, 2014]: Review on "Entropy production and fluctuation relations for a KPZ interface".

- 26. Gwangju-Chonnam KPS 2013 Annual Meeting at Chonnam National University, Gwangju, Korea [12/17, 2013]: "Dynamic Scaling in Polymer Thin Film Growth".
- 25. The KPS 2013 Spring Meeting at DCC, Daejeon, Korea [04/24-26, 2013]: "Dynamic Scaling in Time Evolution of Phase Synchronized Oscillators".
- Gwangju-Chonnam KPS 2012 Annual Meeting at Chosun University, Gwangju, Korea
   [12/14, 2012 (invited)]: "How to Solve Random Constraint Satisfaction Problems using SLS Algorithms".
- 23. The 2<sup>nd</sup> Workshop on Non-Equilibrium Fluctuation Theorems at SEACLOUD Hotel, Busan, Korea [05/18-19, 2012]: "Dynamic scaling of synchronized oscillation".
- 22. The KPS 2012 Spring Meeting at DCC, Daejeon, Korea [04/25-27, 2012]: "Totally Asymmetric Simple Exclusion Process with a Quenched Slow Bond"
- Gwangju-Chonnam KPS 2011 Annual Meeting at Chonnam National University, Gwangju, Korea
  - [12/16, 2011 (invited)]: "Synchronization Phase Transitions in Globally Coupled Oscillators".
- The KPS 2011 Fall Meeting at BEXCO, Busan, Korea
   [10/19-21, 2011]: "Revisited Finite-Size Scaling in Complex Networks".
- [10/19-21, 2011]: "Revisited Finite-Size Scaling in Complex Networks' 19. The KPS 2011 Spring Meeting at DCC, Daejeon, Korea
- [04/13-15, 2011 (invited)]: "Role of Memory in Contact Process".

  18. The KPS 2010 Fall Meeting at Phoenix Park, Pyeongchang, Korea
- [10/20-22, 2010]: "Critical Behavior of Q-Coloring in Random Networks".
- 17. The KPS 2010 Spring Meeting at DCC, Daejeon, Korea [04/21-23, 2010 (invited, Yong-Bong Prize)]:
  - "Phase Transitions and Critical Behaviors in Random Constraint Satisfaction Problems".
- 16. Winter School on Algorithms and Combinatorics 2010 at Hongik International Center, Chochiwon, Korea
  - [01/11-13, 2010]: "Finite-Size Scaling in Random k-Satisfiability Problems".
- 15. The KPS 2009 Fall Meeting at CECO, Changwon, Korea [10/22-23, 2009]: "Finite-Size Scaling in Random k-Satisfiability Problems".
- 14. The 15<sup>th</sup> Workshop of STATPHYS 2009 at Konjiam Resort, Gwangju, Korea [08/12-14, 2009]: "Intermittency studies and multifractality in (1+1)-d surface growth".
- 13. The 24<sup>th</sup> MDRG Workshop at Mt. Jangtae Resort, Daejeon, Korea [06/25-26, 2009]: "Anomalous scaling behavior in polymer thin film growth by vapor deposition".
- 12. The KPS 2009 Spring Meeting at DCC, Daejeon, Korea [04/23-24, 2009]: "Critical behavior of Ising model in annealed SFNs".
- 11. The KPS 2008 Fall Meeting at KimDaeJung Convention Center, Gwangju, Korea [10/23-24, 2008]: "Driven contact process with a long-term memory".
- 10. The KPS 2008 Spring Meeting at DCC, Daejeon, Korea
  - $[04/17-18,\ 2008]$ : "Boundary induced abrupt transitions in symmetric exclusion process".
- The KPS 2007 Fall Meeting at Jeju ICC, Jeju, Korea [10/18-19, 2007]: "Nonequilibrium phase transitions in the annealed version of SFNs".
- 8. The 14<sup>th</sup> Workshop for STATPHYS 2007 at Naminara Hotel, Chunchon, Korea [08/16-18, 2007]: "Heterogeneous MF behaviors of the CP on the random neighbors version of SFNs".
- 7. The KPS 2007 Spring Meeting at Phoenix Park, Pyeongchang, Korea [04/19-20, 2007]: "Spatial correlations and extended self-similarity in sandpiles".
- [04/19-20, 2007]: "Spatial correlations and extended self-similarity in sandpiles" 6. The KPS 2006 Fall Meeting at EXCO, Daegu, Korea
- [10/19-20, 2006 (invited)]: "Critical behavior of the contact process on complex networks".
- Fall Workshop of Research Institute of Physics & Chemistry at Chonbuk National University, Jeonju, Korea [09/08, 2006 (invited)]: "Mean-field behavior of the contact process on complex networks".
- 4. APCTP Extended Monthly Meeting at Pukyong National University, Busan, Korea [08/19-20, 2004 (invited)]: "Instability threshold in a 1D driven diffusive system".
- 3. The KPS 2004 Spring Meeting at Sungkyunkwan University, Suwon, Korea [04/23-24, 2004]: "Instability threshold in a 1D driven diffusive system: ASEP with nonlocal hopping".
- The 12<sup>th</sup> Workshop of Thermal and STATPHYS 2003 at Sooahnbo, Korea [08/19-21, 2003]: "Queuing transitions in the ASEP".
- 1. The Korean Physical Society (KPS) 1994 Spring Meeting at Inha University, Inchon, Korea [04/22-23, 1994]: "A restricted ballistic deposition model on a 1D staircase".

### Colloquia/seminars

(22 invited only here)

22. Seminar for the Group of Grid Modernization Energy AI at Korea Institute of Energy Technology (KENTECH), Naju, Korea [09/11, 2023]: "Universality of Dynamic Phase Transition in Complex Systems".

21. Physics Colloquium for Department of Physics at Inha University, Inchon, Korea [06/02, 2022]: "Phase Transitions and Critical Phenomena in Nonequilibrium Complex Systems".

20. Physics Colloquium for Department of Physics and Photon Science at Gwangju Institute of Science and Technology (GIST), Gwangju, Korea [05/11, 2022] "Universality of Dynamic Phase Transitions in Complex Systems".

Physics Online Colloquium for Department of Applied Physics, Photonics and Nano-Electronics at Hanyang University - ERICA, Ansan, Korea [09/29, 2021]: "Biased Random Walk from Fun-d-a-mental to Applied Physics".

- 18. Advanced Physics and Carreer Lecture for High-School Students at Seogang High School, Gwangju, Korea [07/14, 2021]: "Useful Physics To Live Happliy with Fun".
- 17. Physics Online Colloquium for Department of Physics at Ewha Womans University, Seoul, Korea [05/12, 2021]: "Universality and Diversity in Nonequilibrium Complex Systems".
- 16. Special Lecture for Professional Career and Job Expo at Daedeok Middle School, Daejeon, Korea [07/10, 2019]: "Why does Quantum Mechanics become popular in movies?".
- Special Lecture for Professional Career and Job Expo at Daedeok Middle School, Daejeon, Korea

[07/11, 2018]: "What is physics? Could being physicist is a job for living?".

- 14. Physics Colloquium for Department of Physics at Chonnam National University, Gwangju, Korea [11/20, 2014]: "More is either Different or the Same: Condensed-Matter Physics vs. Statistical Physics, Universality of Complex Systems".
- 13. Selected Program Seminar at Chosun Woman High School, Gwangju, Korea [12/12, 2012]: "False and True in Physics: Merits of Woman Physicists".
- Physics Seminar at Seoul National University, Seoul, Korea [03/23, 2012]: "Dynamic Scaling in Globally-Coupled Kuramoto Oscillators".
- Physics Seminar at University of Suwon, Suwon, Korea [05/20, 2010]: "How to Understand Critical Behavior in Complex Systems?".
- HYKE Seminar at Seoul National University, Seoul, Korea [05/07, 2010]: "Phase Transitions and Universality Classes in Complex Systems".
- Physics Colloquium at Inha University, Inchon, Korea [10/16, 2008]: "Simple physical model studies for complex systems and statistical physics".
   The PhysDIS Program (05/05-31) Seminar at NORDITA, Stockholm, Sweden
- 8. The PhysDIS Program (05/05-31) Seminar at NORDITA, Stockholm, Sweden [05/28, 2008]: "Instability transitions and ensemble equivalence in diffusive flow".
- 7. Condensed-Matter Physics Seminar at Soongsil University, Seoul, Korea [12/18, 2007]: "Kinetic roughening and multifractality in vapor deposition polymerization growth".
- Physics Colloquium at Chonbuk National University, Jeonju, Korea [09/28, 2006]: "Complexity and criticality in nonequilibrium systems"
- 5. The 2<sup>nd</sup> APCTP-KIAS Winter School on Statistical Physics at Phoenix Park, Pyeongchang, Korea [1/18-21, 2005 (lecture-type seminar)]: "ASEP: an overview & some recent developments".
- 4. ABRL Physics Seminar at Seoul National University, Seoul, Korea [12/03, 2004]: "Queuing transitions in 1D driven flow".
- Condensed-Matter Physics Seminar at Soongsil University, Seoul, Korea [02/03, 2004]: "Nonequilibrium phase transitions in 1D driven diffusive systems".
- 2. Physics Colloquium at Inha University, Inchon, Korea [11/27, 2003]: "Phase transitions in 1D nonequilibrium driven systems".
- 1. Condensed-Matter Seminar at KIAS, Seoul, Korea [01/20, 2003]: "ASEP with a site defect".

### Contributed posters

- (31 international poster presentations only shown here)
- 31. Satellite Meeting of after STATPHYS29:

Non-Equilibrium Statistical Physics: mathematical and physical advances (NESP-2025) at Villa Ruspoli, Florence, Italy [07/21-07/26, 2025]: "From Slow-Bond Problem to Sign-Order Phase Transition with Dynamic Crossover".

30. STATPHYS29 at Palazzo dei Congressi & Palaffari, Florence, Italy

[07/13-07/18, 2025]: "Universality Classes of Nonequilibrium Phase Transitions in Complex Systems".

29. NSPCS 2024 - Nonequilibrium Statistical Physics and Complex Syestems

10<sup>th</sup> Conference on Statistical Physics at KIAS, Seoul, Korea

[07/22-25, 2024]: "Local Faceting and Dynamic Crossover Scaling".

28. Cargese 2024 - Complex and Glassy Systems

at Institut d'Etudes Scientifiques (University of Corsica), Cargese, France

[07/09-19, 2024]: "Crossover Phenomena in Quasi long-range Order and Local Faceting".

27. LesHouches2024 - Complex systems, statistical mechanics, and machine learning crossover:

In Memory if Giovanni Paladine

at Ecole de Physique des Houches, Les Houches, France

[03/24-29, 2024]: "Generalized Wealth Dynamics with Talent, Luck, and Social interaction".

26. STATPHYS28 Satellite Meeting: New Frontiers in Complex Networks

at Pukyong National University, Busan, Korea

[08/02-06, 2023]: "Dynamics of Epidemic Models on Complex Networks".

- 25. Modeling on Ecology and Evolution Workshop (MEEW: hybrid workshop) at KIAS, Seoul, Korea [10/27-29, 2022]: "Revisited Optimal evolutionary decision-making and control".
- 24. JSPS-APCTP Workshop: Roles of Heterogeneity in Non-equilibrium collective dynamics (RHINO 2022) at the University of Tokyo, Tokyo, Japan & Online

[09/16-17, 2022]: "Dynamic Phase Ordering coupled with Surface Growth".

23. APCTP-KIAS Workshop on "Motors and Engines" at KIAS, Seoul, Korea [06/25-27, 2018]: "One-dimensional TASEP with a slow bond".

22. Dynamics Days 2018 - International conference on chaos and nonlinear dynamics at Hilton City Center, Denver, U.S.A.

[01/04-06, 2018]: "Universal Scaling Properties of Cooperative Contagion with Structural Heterogeneity".

- 21. Yukawa International Seminar 2015 (YKIS2015)
- New Frontiers in Non-equilibrium Statistical Physics 2015 at YITP, Kyoto, Japan [08/17-19, 2015]: "Dynamic Scaling Analysis in Random Constraint Satisfaction Problems".
- 20. Japan-France Joint Seminar
- New Frontiers in Non-equilibrium Physics of Glassy Materials at YITP, Kyoto, Japan [08/11-14, 2015]: "Dynamic Scaling Analysis in Random Constraint Satisfaction Problems".
- 19. YITP workshop Interface fluctuations and KPZ universality class
  - unifying mathematical, theoretical, and experimental approaches at YITP, Kyoto, Japan [08/20-23, 2014]: "Dynamic phase transition by coupling Ising spins to KPZ-type surface growth".
- 18. The 6<sup>th</sup> KIAS Conference on Statistical Physics (NSPCS12) at KIAS, Seoul, Korea [07/08-10, 2014]: "Synchronization in Kuramoto Coupled Oscillators: From Dynamic Scaling to Transition Nature".
- 17. The 5<sup>th</sup> YSM-SPIP Frontier of Statistical Physics and Information Processing (FSPIP2013): Perspectives from Nonequibrium Behaviors Satellite Meeting of STATPHYS25 at YITP, Kyoto, Japan [07/11-14, 2013]: "Extended finite-size scaling in the Kuramoto model".
- 16. The 5<sup>th</sup> KIAS Conference on Statistical Physics (NSPCS12) at KIAS, Seoul, Korea [07/03-06, 2012]: "Dynamic Scaling in Synchronization Transition of Coupled Oscillators".
- 15. International Seminar on Large Fluctuations in Non-Equilibrium Systems (LAFNES11), at MPIPKS, Dresden, Germany

[07/04-15, 2011]: "Contact process with power-law type feedbacks".

- 14. International Seminar on Many-Body Systems Far From Equilibrium (MBSFFE09), Fluctuations, Slow Dynamics, and Long-Range Interactions at MPIPKS, Dresden, Germany [02/16-27, 2009]: "Anomalous scaling behavior in polymer thin film growth by vapor deposition".
- 13. SigmaPhi2008 at Orthodox Academy of Crete, Kolympari Chania, Greece [07/14-18, 2008]: "Anomalous scaling behavior in polymer thin film growth".

- 12. The 3<sup>rd</sup> KIAS Conference on Statistical Physics (NSPCS08) at KIAS, Seoul, Korea [07/01-04, 2008]: "Instability transition and ensemble equivalence in diffusive flow".
- 11. STATPHYS23 at Genova, Italy [07/09-13, 2007]: "Finite-size scaling in complex networks".
- 10. Satellite Meeting of before STATPHYS23:
  - STATICS AND DYNAMICS OF GRANULAR MEDIA AND COLLOIDAL SUSPENSIONS, at Napoli, Italy [07/04-06, 2007]: "Dynamic instability transitions in 1D driven diffusive flow with nonlocal hopping".
- 9. International Conference on the Frontiers of Nonlinear and Complex Systems at Hong Kong Baptist University, Hong Kong, China [05/24-26, 2006]: "FSS in complex networks".
- 8. The Issac Newton Institute School
- on Non-Equilibrium Dynamics of Interacting Particle Systems (PDSW02) at the INI, Cambridge, U.K. [03/27-04/07, 2006]: "Queuing transitions in the ASEP".
- 7. STATPHYS22 at Bangalore, India [07/03-11, 2004]: "ASEP with nonlocal hopping".
- 6. Satellite Meeting of before STATPHYS22:
- Nonequilibrium Statistical Physics of Complex Systems (NSPCS04) at KIAS, Seoul, Korea [06/29-07/02, 2004]: "Instability threshold in a 1D driven diffusive system".
- NESTPHY03-MPIPKS International Seminar at MPIPKS, Dresden, Germany [09/20-10/10, 2003]: "Queuing transitions in the ASEP".
- 4. The 2<sup>nd</sup> Networking Day of Physics Career Development Organization at the University of Washington, Seattle, WA, U.S.A. [01/30, 2003]: "The effect of a columnar defect on slow combustion of papers".
- 3. The 6<sup>th</sup> APCTP Winter School on Scaling and Phase Transitions in Complex Networks and Nonequilibrium Systems at POSTECH, Pohang, Korea [02/18-21, 2002]: "Macroscopic car condensation in a parking garage".
- Fundamental Problems of Statistical Physics X (FPSPX) at Altenberg, Germany [08/20-09/01, 2001]: "Dynamic analogue of Bose condensation in a traffic model with a parking garage"
   The 4<sup>th</sup> CTP Workshop on Statistical Physics at Seoul National University, Seoul, Korea [01/27-31, 1997]: "Dynamic behaviors of 1D anchored interfaces".

### **Contributed Articles**

- "Scaling Relations between Regional School-age Population Density and Densities of College Departments and Students by Majors" New Physics: Sae Mulli HIGHLIGHTS, PHYSICS & HIGH TECHNOLOGY Vol. 33, No. 11 November, 2023. (forthcoming)
- "Spatial Correlations and Extended Self-Similarity Properties"
   New Physics: Sae Mulli HIGHLIGHTS, PHYSICS & HIGH TECHNOLOGY
   Vol. 24, No. 12 December, 2015.
- "Fundamental Structural Constraint of Random Scale-Free Networks" Most Recent Research Review, PHYSICS & HIGH TECHNOLOGY Vol. 22, No. 1/2 January/February, 2013 (coauthor: Yongjoo Baek).
- "Numerical Study of Synchronization in the Kuramoto Model with Finite Inertia" New Physics: Sae Mulli HIGHLIGHTS, PHYSICS & HIGH TECHNOLOGY Vol. 21, No. 11 November, 2012 (coauthor: Chulho Choi).
- 6. "Professor Column", Chosun University News, Vol. 198, January 2012.
- "Relevance of Abelian Symmetry and Stochasticity in Directed Sandpiles" Most Recent Research Review, PHYSICS & HIGH TECHNOLOGY Vol. 18, No. 1/2 January/February, 2009 (coauthor: Hang-Hyun Jo).
- 4. "International Conference on the Frontiers on Nonlinear and Complex Systems" WE HERE THAT, APCTP Bulletin, Vol. 9, No. 1/2, Jan. Dec. 2006.
- 3. "Farewell Essay", KIAS Newsletter, No. 33, Winter 2006.
- "STATPHYS22: 22<sup>nd</sup> International Conference on Statistical Physics of IUPAP" Conference Participation Report, PHYSICS & HIGH TECHNOLOGY Vol. 13, No. 9, September, 2004.
- "KIAS-APCTP Satellite Meeting and India Main Meeting of STATPHYS22"
   Conference Report, KIAS Newsletter, No. 25, Autumn 2004 (co-author: Su-Chan Park).