

GOLDEN ACADEMY

Message from the organizers

Dear Colleagues and Friends,

2018 International Conference for Leading and Young Computer Scientists (IC-LYCS 2018) will be held in Okinawa, Japan during Feb 09-12 2018.

IC-LYCS intends to provide a platform for the exchange and networking between top scientists, emerging young researchers, and students across a wide spectrum of computer science and informatics.

We would like to invite you to participate in IC-LYCS 2018. Your active participation is the key to the success of this conference.



Yours Sincerely,

IC-LYCS 2018 Committee

Asia Pacific Society for Computing and Information Technology (APSCIT)

www.apscit.org

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Conference organizing committee

CONFERENCE CHAIRS

Prof. Shizue IZUMI (Shiga University)

Prof. Shigeo AKASHI (Tokyo University of Science)

Prof. Von-Wun SOO (National Tsing Hua University)

Prof. Jan-Ming HO (Academia Sinica)

Prof. Yoshifumi NISHIDA (National Institute of Advanced Industrial Science and Technology)

CONFERENCE PROGRAM DIRECTORS

Dr. Yingxue SONG (APSCIT)

CONFERENCE SECRETARIAT

Ms. Yangjun HU (APSCIT)

Ms. Yaru WU (APSCIT)

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Conference topics

1. *Theory, Algorithms, Programming*
2. *Database, Cloud Computing, Data Mining, Big Data*
3. *Communications, Networking, Security, and Internet of Things*
4. *Multimedia, Image Processing and Recognition (Virtual Reality)*
5. *High Performance Computing and Intelligent Systems (AI, Robotics)*
6. *Software Engineering and Applications*
7. *Electronics (Analog/Digital Circuits, Signal Processing, System Architectures)*

	FRI, 2/9	SAT, 2/10	SUN, 2/11	MON, 2/12
9:10 - 10:30	Pre-session technical and discussion forums on international collaboration	Oral Presentation		
10:30 - 10:40		Coffee & Tea Break		
10:40 - 12:10		Oral Presentation		
12:10 - 12:55		Lunch Break		Optional Excursion
13:00 - 14:30		Oral Presentation		
14:30 - 14:40		Coffee & Tea Break		
14:40 - 16:50		Oral Presentation		
17:00 - 18:30	Conference Registration & Reception		Poster Session	
19:00 - 20:30			Conference Banquet	

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Presentation List (Room B)

	FRI, 2/9	SAT, 2/10	SUN, 2/11	MON, 2/12
9:10 – 10:30	Pre-session technical and discussion forums on international collaboration	1. S. IZUMI 2. S. TAKATA	13. T.R. LEE 14. T. ARITA	25. C.S. JE 26. T.L. SHEN
10:30 – 10:40		Coffee & Tea Break		
10:40 – 12:10		3. T. SATO 4. A. KAWAI 5. H. MIYAJIMA	15. S. AKASHI 16. B.S. HAM 17. H. AOKI	27. R.I. CHANG 28. W.L. HWANG
12:10 – 12:55		Lunch Break		Conference Excursion
13:00 – 14:30		6. V.W. SOO 7. C.F. HUANG 8. L. SU	18. S.S. KANG 19. C.F. CHANG 20. E. DOMOTO	
14:30 – 14:40		Coffee & Tea Break		
14:40 – 16:50		9. Y.H. YANG 10. B.G. LEE 11. M. TSUNODA 12. Reserved	21. W.T. SUNG 22. J.W. HSIEH 23. J.C. JEON 24. Reserved	
17:00 – 18:30	Conference Registration & Reception		Poster Session	
19:00 – 20:30			Conference Banquet (Approx. 1.5 hrs)	

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Presentation List (Room A)

	FRI, 2/9	SAT, 2/10	SUN, 2/11	MON, 2/12
9:10 – 10:30	Pre-session technical and discussion forums on international collaboration			
10:30 – 10:40		Coffee & Tea Break		
10:40 – 12:10				
12:10 – 12:55		Lunch Break		Conference Excursion
13:00 – 14:30		6. Y. HASEGAWA 7. K. KITAMURA 8. K.C. KIM		
14:30 – 14:40		Coffee & Tea Break		
14:40 – 16:50		9. S.Y. KWON 10. J.M. HO 11. K. OKUHARA 12. Reserved		
17:00 – 18:30	Conference Registration & Reception		Poster Session	
19:00 – 20:30			Conference Banquet (Approx. 1.5 hrs)	

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Presentations for IC-LYCS 2018

SATURDAY 2/10

Room B

1. Use of Big Data in Risk Communication: Statistical Methods for Longitudinally Issued Text Data (S. IZUMI)
2. New Direction in the Education of Data Science in Japan
-Big data, Data mining, data base and Cloud computing - (S. TAKATA)
3. Toward constructing Virtualized Real World from Images (T. SATO)
4. Approach Traffic Congestion Problems (A. KAWAI)
5. Security and Privacy preserving for Machine Learning using Secure Multiparty Computation (H. MIYAJIMA)
6. How Can Machines Generate Stories (V.W. SOO)
7. Algorithmic Composition with Music Emotion and Genre (C.F. HUANG)
8. An Introduction to Automatic Music Transcription (L. SU)
9. Machine Learning for Creative AI Applications in Music (Y.H. YANG)
10. Recent Researches on Hardware Neural Network (B.G. LEE)
11. Applying Propensity Score to Analyze Productivity of Software Development Projects (M. TSUNODA)
12. Reserved

Room A

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6. Evaluation of Plant Physiological Activities Using Plant Bioelectric Potential Response for controlling cultivation environment (Y. HASEGAWA)
7. Living Safety Technology based on Integration of Multi-Organizational Distributed Data (K. KITAMURA)
8. Safety and Security of IoT Devices (K.C. KIM)
9. DSSC Efficiencies of PEG Additive In TiO₂ Paste (S.Y. KWON)
10. DASH Streaming in Underground Rapid Transportation (J.M. HO)
11. Importance Calculation of Node and Arc in Network by Graph Mining (K. OKUHARA)
12. Reserved

SUNDAY 2/11

Room B

13. Mobile e-Book for BITEC Learner in a connected world (T.R. LEE)
14. Evolving Virtual Creatures for Ecological Evolutionary Developmental Biology (eco-evo-devo) (T. ARITA)
15. Network Theoretic Similarities Commonly Existing in DNS Reflection Attack and in Dos Attack Caused by Clients Accused Falsely (S. AKASHI)
16. Unconditional Security in Quantum Communications beyond the Practical Limit of Quantum Loopholes (B.S. HAM)

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- 17. Depth Sensor Applications: Haptic User Interface and Non-contact Biosignal Measurement (H. AOKI)
- 18. NLP Techniques and its Applications: Machine Translation, Big data, and Deep Learning (S.S. KANG)
- 19. Resurgence of Image-Based Rendering in VR/AR Applications (C.F. CHANG)
- 20. Improvement of Education Quality by Utilizing Big Data in Academic Life Log of Student (E. DOMOTO)
- 21. Some innovation IOT Systems Integration and Applications (W.T. SUNG)
- 22. The Reliability Issues of Flash-memory Storage Systems (J.W. HSIEH)
- 23. Introduction of Quantum-Dot Cellular Automata Circuits (J.C. JEON)
- 24. Reserved

POSTER SESSION

- P1. KoNLTK: Korean Natural Language Toolkit for Python Platform (Y.H. CHO)
- P2. Ripeness Evaluation of Post Harvest Fruits using Plant Bioelectric Potential (R. ISHIDA)
- P3. Deep Learning Method of Keyword Generation by using Doc2Vec and Word2Vec (H.Y. LEE)
- P4. N-gram based Language Model for the QWERTY Keyboard Input Errors in a Touch Screen Environment (Y.G. ONG)
- P5. Algorithmic Composition Musical Platform with Perception (W.P. NIEN)

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P6. Combining Bi-LSTM and CRF Model for Automatic Word-Spacing of the Korean Language (G.H NAM)

MONDAY 2/12

Room B

25. Color Structured Light for Rapid Range Imaging (C.S. JE)

26. Application of Prediction and Learning Algorithms in Automotive Powertrain Systems (T.L. SHEN)

27. In-memory Lookup Cloud for Constructing Suffix Array of Next-Generation Sequencing upon MapReduce (R.I. CHANG)

28. Constrained Null Space Component Analysis for Semi-Blind Source Separation Problem (W.L. HWANG)