

GOLDEN ACADEMY

Message from the organizers

Dear Colleagues and Friends,

2017 International Symposium for Advanced Computing and Information Technology (ISACIT 2017) will be held in Sun Moon Lake, Taiwan during August 18-21 2017.

ISACIT 2017 is a new symposium and aimed 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 ISACIT 2017. Your active participation is the key to the success of this conference.



Yours Sincerely,

ISACIT 2017 Committee

Asia Pacific Society for Computing and Information Technology (APSCIT)

www.apscit.org

GOLDEN ACADEMY

Conference organizing committee

CONFERENCE CHAIRS

Prof. Kaz ARIMOTO (Okayama Prefectural University)

Prof. Ru-Jen CHAO (Kao Yun University)

Prof. Jiann-Liang CHEN (National Taiwan University of Science and Technology)

Prof. Sun-yuan HSIEH (National Cheng Kung University)

Prof. Rize JIN (Ajou University)

Prof. Jung-Sing JWO (Tunghai University)

Prof. Yasushi KAMBAYASHI (Nippon Institute of Technology)

Prof. Yung-Hui LI (National Central University)

Prof. Yao-Tung TSOU (Feng Chia University)

Prof. Yunjiang WANG (Xidian University)

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)*
8. *Software Visualization and Big data of Solar Energy*

	FRI, 8/18	SAT, 8/19	SUN, 8/20	MON, 8/21
9:00 – 10:00	Pre-session technical and discussion forums on international collaboration	Oral Presentation		
10:00 – 10:15		Coffee & Tea Break		
10:15 – 12:20		Oral Presentation		
12:20 – 13:10		Lunch Break		Optional Excursion
13:15 – 14:30		Oral Presentation		
14:30 – 14:40		Coffee & Tea Break		
14:40 – 17:10		Oral Presentation		
17:30 – 18:45	Conference Registration		Poster Session	
19:00 – 20:30	Conference Reception		Conference Banquet	

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Presentation List (Hall)

	FRI, 08/18	SAT, 08/19	SUN, 08/20	MON, 08/21
9:00 – 10:00	Pre-session technical and discussion forums		17. H. TAKAO 18. S. SHIGEMATSU	
10:00 – 10:15		Coffee & Tea Break		
10:15 – 12:20			19. M. HAMADA 20. J.H. KIM 21. T. YAMAZAKI 22. S. HIROSE 23. H. OHMURA	
12:20 – 13:10		Lunch Break		Conference Excursion
13:15 – 14:30				
14:30 – 14:40		Coffee & Tea Break		
14:40 – 17:10				
17:30 – 18:45	Conference Registration		Poster Session	
19:00 – 20:30	Reception		Conference Banquet (Approx. 1.5 hrs)	

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Presentation List (No. 1 Meeting Room)

	FRI, 08/18	SAT, 08/19	SUN, 08/20	MON, 08/21
9:00 – 10:00	Pre-session technical and discussion forums			
10:00 – 10:15		Coffee & Tea Break		
10:15 – 12:20		3. L.J. HUNG 4. H.L. WANG 5. W.K. HON 6. R. JIN 7. C.Y. LAN		
12:20 – 13:10		Lunch Break		Conference Excursion
13:15 – 14:30				
14:30 – 14:40		Coffee & Tea Break		
14:40 – 17:10		11. M.F. CHANG 12. K. NII 13. R. SUSUKITA 14. C.S. WANG 15. X.H. MA 16. J. SUN		
17:30 – 18:45	Conference Registration		Poster Session	
19:00 – 20:30	Reception		Conference Banquet (Approx. 1.5 hrs)	

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Presentation List (No. 2 Meeting Room)

	FRI, 08/18	SAT, 08/19	SUN, 08/20	MON, 08/21
9:00 – 10:00	Pre-session technical and discussion forums	1. S.H. CHEN 2. C. JE		
10:00 – 10:15		Coffee & Tea Break		
10:15 – 12:20		3. T. KAWABATA 4. I.S. HWANG 5. J. DAUWELS 6. L.H. CHANG 7. Z.H. GUO		
12:20 – 13:10		Lunch Break		Conference Excursion
13:15 – 14:30				
14:30 – 14:40		Coffee & Tea Break		
14:40 – 17:10		11. E.Y. BYUN 12. W.S. JANG 13. J.H. LEE 14. B.K. PARK 15. J. PARK 16. K. KIM		
17:30 – 18:45	Conference Registration		Poster Session	
19:00 – 20:30	Reception		Conference Banquet (Approx. 1.5 hrs)	

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Presentation List (No. 3 Meeting Room)

	FRI, 08/18	SAT, 08/19	SUN, 08/20	MON, 08/21
9:00 – 10:00	Pre-session technical and discussion forums			33. Y. Sam HAN 34. F. YAROCKIN
10:00 – 10:15		Coffee & Tea Break		
10:15 – 12:20			19. R.J. CHAO 20. Q. WANG 21. G.E. JAN 22. S. AKASHI 23. Y.C. CHEN	35. H. MIYAJIMA 36. J.C. YING 37. I.C. HSUEH
12:20 – 13:10		Lunch Break		Conference Excursion
13:15 – 14:30		8. S.L. CHOU 9. Y.C. CHANG 10. Y.W. MA	24. H.J. KIM 25. Y.P. CHENG 26. T. KUMAZAWA	
14:30 – 14:40		Coffee & Tea Break		
14:40 – 17:10			27. M. KUJIRAI 28. M. OGAWA 29. Y. KAMBAYASHI 30. S.P. TUNG 31. N.N. YEH 32. G.W. CHEN	
17:30 – 18:45	Conference Registration		Poster Session	
19:00 – 20:30	Reception		Conference Banquet (Approx. 1.5 hrs)	

GOLDEN ACADEMY

Presentations for ISACIT 2017

SATURDAY 8/19

No. 1 Meeting Room

3. On the Approximability of hub allocation problems (L.J. HUNG)
4. Convexity on AT-free graphs (H.L. WANG)
5. GBWT: Linking Range Searching and Text Indexing (W.K. HON)
6. Management of Massive Amounts of Small Files in Flash Memory (R. JIN)
7. The Patterns of Media Art Styles - example by an animation film (C.Y. LAN)
11. Challenges of Emerging Memory Enabled Circuits: Nonvolatile Logics, IoT Security, and AI Chips (M.F. CHANG)
12. An Implementation of Ultra-Low-Standby Power SRAMs using 65 nm Silicon-on-Thin-Box (SOTB) for Smart IoT (K. NII)
13. Utilizing wide SIMD processors in particle-based simulations (R. SUSUKITA)
14. Big Data in APRS (C.S. WANG)
15. Large-scale Text Classification with Efficient Word Embedding (X.H. MA)
16. Simple feature engineering and gated CNNs for text classification (J. SUN)

No. 2 Meeting Room

1. The Use of Knowledge in the Digital Society: Hayek (1945), 70 Years On (S.H. CHEN)
2. Color Structured Light for Rapid Range Imaging (C. JE)

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3. Introduction to the Lossless Source Coding and the Context Tree Weighting Method (T. KAWABATA)
4. Hybrid uplink traffic scheduling algorithm in Fixed Mobile Convergence (FMC) networks: A Comparative Study of Performance (I.S. HWANG)
5. Data analytics and simulation tools for urban mobility of the future (J. DAUWELS)
6. Efficient Tools to Implement Web-Based Systems (L.H. CHANG)
7. Robust texture image representation by scale selective local binary patterns (Z.H. GUO)
11. Error Data Analysis of the Photovoltaic Energy Monitoring System with the confidence interval of Multivariate Linear Regression (E.Y. BYUN)
12. Metamodel based Photovoltaic Monitoring System for Heterogeneous Renewable Energies (W.S. JANG)
13. Analysis of Integrated Renewable Energy Monitoring System Data using KNN for Pre-Processing (J.H. LEE)
14. Improvement for Effective Commination Cost of Solar Energy Integrated Monitoring System based on Long Range, Low Power Wireless Platform (LoRa Technology) (B.K. PARK)
15. A study on Failure Judgement Method of Photovoltaic System based on Logistic Classification (J. PARK)
16. An Experimental Practice with the lightweight test maturity model to improve test process of Korean Small & Medium Sized Companies (K. KIM)

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No. 3 Meeting Room

8. New 5G system architecture for supporting diversified IoT applications (S.L. CHOU)
9. LoRaWAN: new IoT Access Network (Y.C. CHANG)
10. Adaptive Resource Selection Mechanism for Cross-Border E-Commerce Risk Analysis (Y.W. MA)

SUNDAY 8/20

Hall

17. High Resolution MEMS Tactile Sensors for Realization of Artificial Sense of Fingertip (H. TAKAO)
18. Computational issues and solutions in the future network (S. SHIGEMATSU)
19. 3D Integration for Advanced Computing Systems (M. HAMADA)
20. SSVEP-based Brain-Computer Interface System with Target Identification Accelerator (J.H. KIM)
21. Development of Interactive Facial Expression Reader (T. YAMAZAKI)
22. Compression-Function Modes of Operations for Symmetric Cryptography (S. HIROSE)
23. Generative Music System Based on Expectations for Musical Structure (H. OHMURA)

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No. 3 Meeting Room

19. 3D Scene Modeling and Navigation (R.J. CHAO)
20. The Integration Challenge of Cyber-Physical Systems: A Software Engineering Perspective (Q. WANG)
21. The Fault-Tolerant Multicasting Methodology for Parallel Computers (G.E. JAN)
22. On large scale network failure brought about by the legitimate dynamic routing rules (S. AKASHI)
23. An Efficient Method for Finding Time Series Skyline Result (Y.C. CHEN)
24. Recent Solar Energy System and ESS (Super-capacitor / Li Polymer Battery/Chemical Battery) monitoring and controlling by personal smart-phone (H.J. KIM)
25. Innovative Silver-Bullet Research for Software Engineering Problems (Y.P. CHENG)
26. Model Checking with Metaheuristics (T. KUMAZAWA)
27. Human friendly applications of Human-Computer interaction and introduction to an example of physical computing seminar at graduate school (M. KUJIRAI)
28. A novel concept of combining VR gaming with physiological measurement aiming to long-term health monitoring (M. OGAWA)
29. An Experimental Implementation of Mobile Agent System Based on Ad-hoc Communications (Y. KAMBAYASHI)

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- 30. Automatic Optical Inspection for Soldering Quality Inspection using Machine Learning (S.P. TUNG)
- 31. An Intelligent and Automatic Screening System for Diabetic Retinopathy using Deep Learning (N.N. YEH)
- 32. PCA Based Real-Time Object Recognition and Tracking (G.W. CHEN)

POSTER SESSION

- P1. Eco-Friendly Billboard with DSSC (Dye Sensitized Solar Cell) and ESS (energy storage system) controlled by a personal smart-phone (J.S. BAK)
- P2. Machine Learning Approach for Phishing Detection in SDN Networking (Y.H. CHEN)
- P3. Study on Occlusion Problem in Camera-based Exercise Evaluation System for Elderly Care (T. HIROSAWA)
- P4. Solar panel temperature control and monitoring system (M.S. KIM)
- P5. An Accurate and Efficient Iris Recognition Mechanism on Smart Glasses (P.J. HUANG)
- P6. An-ion air purifier system using personal smart-phone (D.H. KIM)
- P7. Study on Relationship between QoE and QoS in Mobile Communication (H. QIU)
- P8. A Fast and Robust Object Tracking System using Continuous Convolution Operators (X.Y. WU)

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P9. Web based Independent solar power grid monitoring system using Raspberry Pi
(S.X. PIAO)

MONDAY 8/21

No. 3 Meeting Room

33. Coding Theory for Reliable Signal Processing (Y. Sam HAN)

34. Exploring Difficulties in Attribution of Malicious Software (F. YAROCHKIN)

35. Privacy Preserving Machine Learning Methods for Secure Multiparty
Computation using Divided Data (H. MIYAJIMA)

36. Cloud-Computing-based Users' Behavior Mining from Location based Social
Networks (J.C. YING)

37. TBA (I.C. HSUEH)