

SITAIBA 2021 議 程 表

	11/18 (Thur.)	11/19 (Fri.)	11/20 (Sat.)
08:00 – 08:30		Registration	Registration
08:30 – 08:50		Opening	
		09:00 ~ 10:00 Keynote 1 Prof. Heung Youl Youm (KOREA)	09:00 ~ 10:00 Keynote 3 Prof. Koji Nakao (JAPAN)
	10:00~10:50 Registration	資安科技與企業論壇 1 10:00 ~ 10:30 關鍵股份有限公司 KeyXentic CEO 洪伯岳 執行長 無密碼身分認證管理實務	10:00 ~ 11:00 Keynote 4 Prof. Patrick S. Chen
		10:30~10:50 Coffee Break	11:00~11:10 Coffee Break
10:50 – 12:30	Technical Session 1 Multimedia # 11, 26, 28, 34, 50, 52	Technical Session 4 AI and Big Data Analysis (II) # 6, 20, 21, 27, 54, 61	Technical Session 5 Network and Sys- tem Security (II) # 8, 9, 16, 17, 19
12:30 – 13:30	Lunch Break	Lunch Break	11:10~12:50 Technical Session 6 Cryptog- raphy and IoT Security # 2, 10, 18, 55, 58
13:30 – 17:20	13:30~15:20 Technical Session 2 Network and Sys- tem Security (I) # 13, 14, 48, 59, 60	資安科技與企業論壇 2 13:30 ~ 14:00 資訊工業策進會 資安科技研究所 張文村 技術總監 AI, 資安攻防與不實資訊鑑識之間 的三角關係	11:10~12:50 Technical Session 7 Authentic- ation, Foren- sics and Blockchain # 7, 15, 24, 29, 31, 41
	15:20~15:40 Coffee Break	14:10 ~ 14:50 工業技術研究院 資通所 鍾勝民 資深工程師 ITRI PETs : Privacy-Enhancing Technologies, from Cloud to Metaverse	Goodbye
	15:40~17:20 Technical Session 3 AI and Big Data Analysis (I) # 1, 5, 12, 22, 23, 25	14:50 ~ 15:00 Coffee Break 15:00 ~ 16:00 Keynote2 Prof. GEORGE A. TSIHRINTZIS (GREECE) 資安科技與企業論壇 3 16:10 ~ 16:40 中華資安國際 林孟勳 資安顧問 與駭客的冰與火之歌： 談資安檢測對於防禦的重要性 16:50 ~ 17:20 新加坡商網達先進科技 Hugo Chen(陳宏昌)-Senior Manager, Security Professional Services Division 資安威脅下的因應策略	
18:00 ~ 20:30		Banquet	



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Nov. 18 10:50 - 12:30 Session 1 (Meeting Room 2, 6F, Library) <https://meet.google.com/sby-nwgi-obn>

		Paper No.	Title
<p>Multimedia</p> <p>Chair: Prof. Tzu-Wei Lin</p>	11	Cheng-Hsing Yang, Chi-Yao Weng, Chia-Ling Hung and Chun-Ta Li. Reversible Data Hiding in Encrypted Image Based on MSB Inversion	
	26	Pei-Yu Lin, Yi-Hui Chen, Wen-Chuan Wu, Yu-Tzu Huang and Ya-Fen Chang. Comments on the Visual Binary QR Code	
	28	Aneesh Sharma, Lavanya Singampalli, Aditya Vegesna, Mrudula Singampalli and Chi-Yao Weng. NLP-based Hardware Solution for Censoring Audio on Over-the-top (OTT) Media Services	
	34	Hung-Jui Ko, Cheng-Ta Huang, Hsueh-Wen Tseng and Shiuh-Jeng WANG. Efficient Steganographic Method Based on Modulo Cube	
	50	Li-Chiun Lin, Cheng-Ta Huang and Shiuh-Jeng WANG. A High Capacity Reversible Data Hiding in Encrypted Images Using Multi-MSB Prediction and Huffman Coding	
	52	Xiao-Zhu Xie, Chia-Chen Lin and Chin-Chen Chang. Reversible Data Hiding Based on Bidirectional Generalized Integer Transform	



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Nov. 18 13:30 - 15:20 Session 2 (Meeting Room 2, 6F, Library) <https://meet.google.com/sby-nwgi-obn>

Network and System Security (I) Chair: Prof. Kuo-Yu Tsai	Paper No.	Title
	13	Bo-Jia Chen, Ching-Hsiang Lin, Ya-Shih Tseng and Yu-Chi Chen. A Prototype Design on Privacy-Preserving Outsourced Bayesian Network
	14	Shing-Mei Lee. The Security Challenge of Consumers' Mobile Payment
	48	Chin-Ling Chen, Cheng-Yu Ye, Wei-An Chen and Zi-Yi Lim. Research on the Analysis of Key Attack Modes in a Wireless Environment
	59	Alok Kumar Sharma, Li-Hua Li and Ramli Ahmad. Default Risk Prediction using Random Forest and XGBoosting Classifier
	60	Jia-Ning Luo and Ming-Hour Yang. An RFID Ownership Transfer based on Multiple Owners with Different Weights



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Nov. 18 15:40 - 17:20 Session 3 (Meeting Room 2, 6F, Library) <https://meet.google.com/sby-nwgi-obn>

	Paper No.	Title
AI and Big Data Analysis (I) Chair: Prof. Chin-Feng Lee	1	Ming-Hsia Hsu, Wang-Chuan Juang, Zheng-Xun Cai, Li-Chu Wu, Wei-Chun Huang, Tsuang Kuo and Chia-Mei Chen. Evaluation of Recurrent Neural Network Model Training for Health Care Suggestions
	5	Hsing-Yu Hou, Chin-Feng Lee, Chih-Teng Chen and Pei-Jung Wu. E-learning Behavior Analytics in the Curriculum of Big Data Visualization Application
	12	Yu-Ting Chen, Yu-Chih Huang, Chun-Cheng Wang and Wen-Chung Kuo. Malware Detection Based on Image Conversion
	22	Edy Kristianto and Po-Ching Lin. Automobile Theft Detection by Driving Behavior Identification using Deep Autoencoder
	23	Xian-Zhone Lin, Chia-Hsuan Yeh and Kuen-Fang Jea. Combining a Bi-LSTM-Based Siamese Network with Word2Vec Algorithm for Classifying High-Dimensional Dataset
	25	Hsiu-Min Chuang, Tsai-Tao Huang and Chao-Lung Chou. Real Time Drowsiness Detection Based on Facial Dynamic Features



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Nov. 19 10:50 - 12:30 Session 4 (Meeting Room 2, 6F, Library) <https://meet.google.com/jkg-ckmu-pfz>

Paper No.	Title
6	Duc-Khanh Nguyen, Chien-Lung Chan and Dinh-Van Phan. Gradient Deep Learning Boosting and Its Application on the Imbalanced Dataset Containing Noises in Manufacturing
20	Chin-Feng Lee and Ting-Chia Chang. Fabric Defect Detection by Applying Structural Similarity Index to the Combination of Variational Autoencode and Generative Adversarial Network
21	Ming-Yu Kuo and Bo-Chao Cheng. A Novel Defense Mechanism against Label-Flipping Attacks for Support Vector Machines
27	Ruei-Hau Hsu, Shian-Wei Kao and Ting-Yun Huang. Prevention of Data Poisoning Attacks in Privacy-preserving Federated Learning
54	Zhoujie Du. Design and Application of Handwritten Numeral Recognizer Based on Convolutional Neural Network
61	Balaji Natesan and Chuan-Ming Liu. Collision Avoidance in Crowded Zone using Adversarial Reinforcement Learning

AI and Big Data Analysis (II)

Chair: Prof. Ruei-Hau Hsu



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Nov. 19 10:50 - 12:30 Session 5 (Meeting Room 3, 6F, Library) <https://meet.google.com/jsc-tovp-sit>

		Paper No.	Title
Network and System Security (II) Chair: Prof. Po-Wen Chi	8	Ya-Fen Chang, Kuan-Yu Lai, Ka-Ho Fung and Wei-Liang Tai. Comments on a Scalable Healthcare Authentication Protocol with Attack-Resilience and Anonymous Key-Agreement	
	9	Po-Wen Chi, Ming-Hung Wang and Yun-Hsin Chuang. A LWE-based Receiver-Deniable Encryption Scheme	
	16	Tzu-Wei Lin and Chien-Lung Hsu. Privacy-Preserved Hierarchical Authentication and Key Agreement for AI-Enabled Telemedicine Systems	
	17	Chinyang Henry Tseng, Woei-Jiunn Tsaur and Mujiono. Fuzzy C-Means based Feature Selection Mechanism for Wireless Intrusion Detection	
	19	Fu-Hau Hsu, Chia-Hao Lee and Chuan-Sheng Wang. An Active User-Side Detector for Evil Twins	



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Nov. 20 11:10 - 12:50 Session 6 (SC553, 5F, Social Science and Management Building)

<https://meet.google.com/mty-qctx-hpm>

	Paper No.	Title
Cryptography and IoT Security Chair: Yi-Fan Tseng	2	Yi-Fan Tseng. Cryptanalysis to Sowjanya et al.'s Attribute-Based Encryptions from Elliptic Curve Cryptography
	10	Long-Ci Ou and Narn-Yih Lee. IIoT Key Distribution and Authentication Technology based on Physical Unclonable Function
	18	Chun-I Fan, Zhen-Yu Jian and Er-Shuo Zhuang. Lattice-Based Anonymous Multi-Receiver ID-Based Encryption
	55	Chien-Ming Wang and Chih-Hung Wang. The Design of Concurrent Signature Combined with Blind Signature Generation and Its Application on E-commerce
	58	Aman Srivastava and Pranjali Shah. Identification of the Issues in IoT Devices with HSTS Not Enforced and Their Exploitation



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Nov. 20 11:10 - 12:50 Session 7 (SC533, 5F, Social Science and Management Building)

<https://meet.google.com/bsh-ccmx-tab>

<p style="text-align: center;">Authentication, Forensics and Blockchain</p> <p style="text-align: center;">Chair: Prof. Tzu-Wei Lin</p>	Paper No.	Title
	7	Ya-Fen Chang, Sheng-Jie Huang, Guan-Xi Chen and Wei-Liang Tai. A Critique of a Lightweight Authentication and Key Agreement Scheme for Internet of Drones
	15	Wei-Che Hung, Chit-Jie Chew, Ying-Chin Chen, Yun-Yi Fan and Jung-San Lee. A Blockchain-based Custody System for Preserving Critical Video Evidence
	24	Jheng-Jia Huang, Yi-Fan Tseng, Nai-Wei Lo, Shao-Wei Tung and Wen-Yan Dai. Lightweight and Efficient Source Authentication Scheme Based on Blockchain Approach in Open Data Environment
	29	Hsing-Chung Chen, Yao-Hsin Liang and Pei-Yu Hsu. Reconfigurable PM2.5 Sensor Green Deployment Mechanism Based on Blockchain Technology
	31	Iuon-Chang Lin and Chun-Wei Kuo. Trustworthy Blockchain Oracles for Smart Contracts
	41	Jino Lee and Taeshik Shon. Analysis and Acquisition of APFS Data from a Forensic Perspective

SITAIBA 2021 Keynote Speech

GoogleMeet Link

Keynote 1 Prof. Heung Youl Youm (KOREA)

<https://meet.google.com/jkg-ckmu-pfz>

Keynote2 Prof. GEORGE A. TSIHRINTZIS (GREECE)

<https://meet.google.com/jkg-ckmu-pfz>

Keynote 3 Prof. Koji Nakao (JAPAN)

<https://meet.google.com/mty-qctx-hpm>

Keynote 4 Prof. Patrick S. Chen

<https://meet.google.com/mty-qctx-hpm>

SITAIBA 2021 資安科技與企業論壇

GoogleMeet Link: <https://meet.google.com/jkg-ckmu-pfz>

資安科技與企業論壇 1

關鍵股份有限公司 KeyXentic CEO 洪伯岳 執行長 無密碼身分認證管理實務

資安科技與企業論壇 2

資訊工業策進會 資安科技研究所 張文村 技術總監 AI, 資安攻防與不實資訊鑑識之間的三角關係

工業技術研究院 資通所 鍾勝民 資深工程師 ITRI PETs : Privacy-Enhancing Technologies

資安科技與企業論壇 3

中華資安國際 林孟勳資安顧問 與駭客的冰與火之歌：談資安檢測對於防禦的重要性

新加坡商網達先進科技 Hugo Chen(陳宏昌)-Senior Manager, Security Professional Services Division

資安威脅下的因應策略