

● **Advanced
Program**

IEEE
INDONESIA SECTION



ICACSYS 2020

The 12th International Conference on Advanced
Computer Science and Information Systems
Virtual Conference hosted by
the Faculty of Computer Science, Universitas Indonesia
October 17 -18, 2020



FACULTY OF
**COMPUTER
SCIENCE**



CONFERENCE INFORMATION

Dates	October 17 th (Saturday) – October 18 th (Sunday) 2020
Organizer	Faculty of Computer Science, Universitas Indonesia, Indonesia Universitas Pertahanan, Indonesia
Venue	Cisco WEBEX Virtual Meeting ZOOM Webinar
Official Language	English
Secretariat	Faculty of Computer Science, Universitas Indonesia Kampus UI Depok Depok, 16424 Indonesia T: +62 21786 3419 ext. 3225 F: +62 21 786 3415 E: icacsis@cs.ui.ac.id W: http://www.cs.ui.ac.id
Conference Website	http://icacsis.cs.ui.ac.id

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REGISTRATION

Registration Fee

	Domestic	International
Regular	Rp2.500.000	\$175.00
IEEE Member*	RP1.750.000	\$125.00
Student**	Rp1.400.000	\$100.00
Participant (non-presenter)	Rp1.000.000	\$75.00

Payment Method

All payment for the administration fee and additional events should be transferred to the bank account below:

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*Valid as a member at the day of the conference.

** Accompanied by a supporting letter from the university indicating that the registrant is still an active student at the day of the conference and the student must be the first author.

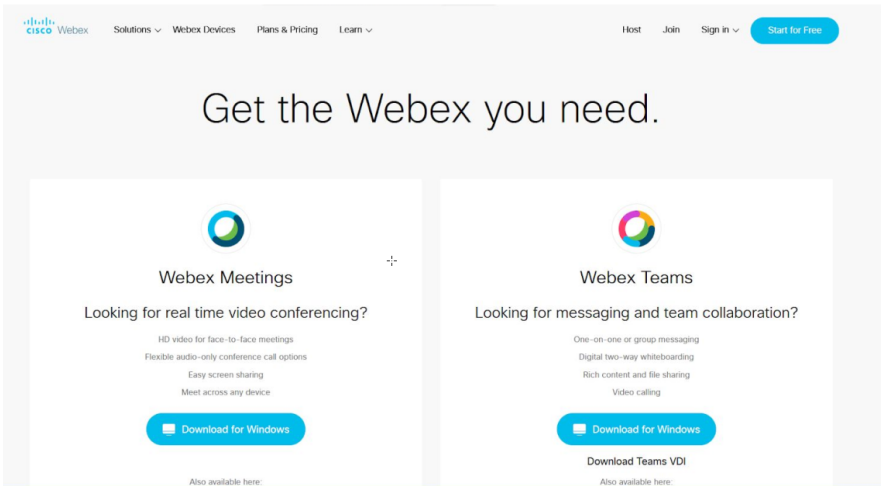
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- We do not provide printed proceeding onsite, please contact us if you need one. There is an additional charge to print and ship it to your address

CONFERENCE PLATFORM

Parralel Session: CISCO WEBEX Meeting

Download: <https://www.webex.com/downloads.html>

Choose Webex Meeting



Plenary and Keynote Talk: Zoom Webinar

link: <https://zoom.us/>

The screenshot shows the Zoom website's landing page for virtual events. At the top, the Zoom logo is on the left, and navigation links for 'SOLUTIONS', 'PLANS & PRICING', and 'CONTACT SALES' are in the center. On the right, there are links for 'JOIN A MEETING' and 'HOST A MEETING'. Below the navigation is a light green banner with the text: 'We have developed resources to help you through this challenging time. [Click here](#) to learn more.'

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The right side of the page features a graphic with several circular icons: a video camera, a person's profile, a group of people, and a shield, all connected by lines to represent a virtual meeting environment. At the bottom of the page, there are four small grey dots and a small icon.

ICAC SIS 2020 PROGRAM SCHEDULE

Day 1: Saturday (October 17th, 2020)

Time (GMT+7)	Event	Room
08.00-10.00	Parallel Session 1	Room #2 Webex Meeting
	Parallel Session 2	Room #3 Webex Meeting
	Parallel Session 3	Room #4 Webex Meeting
10.00-12.00	Parallel Session 4	Room #2 Webex Meeting
	Parallel Session 5	Room #3 Webex Meeting
	Parallel Session 6	Room #4 Webex Meeting
12.00-13.00	Break	Respective room
13.00-15.00	Parallel Session 7	Room #2 Webex Meeting
	Parallel Session 8	Room #3 Webex Meeting
	Parallel Session 9	Room #4 Webex Meeting
15.00-15.30	Break	Respective rooms
15.30-17.30	Parallel Session 10	Room #2 Webex Meeting
	Parallel Session 11	Room #3 Webex Meeting

	<i>Parallel Session 12</i>	<i>Room #4 Webex Meeting</i>
<i>17.30-18.30</i>	<i>Break</i>	<i>Respective rooms</i>
<i>18.30-20.30</i>	<i>Parallel Session 13</i>	<i>Room #2 Webex Meeting</i>
	<i>Parallel Session 14</i>	<i>Room #3 Webex Meeting</i>
	<i>Parallel Session 15</i>	<i>Room #4 Webex Meeting</i>
<i>20.30-22.00</i>	<i>Plenary 1 Prof. Anil K. Jain</i>	<i>Room #1 Zoom Webinar</i>

Day 2: Sunday (October 18th, 2020)

Time (GMT +7)	Event	Room
<i>07.30-08.30</i>	<i>VIP Room Networking Session</i>	<i>Room #1 Zoom Webinar</i>
<i>08.30-09.30</i>	<i>Opening Remark</i>	<i>Room #1 Zoom Webinar</i>
<i>09.30-11.00</i>	<i>Plenary 2 Prof. Toshio Fukuda</i>	<i>Room #1 Zoom Webinar</i>
<i>11.00-12.30</i>	<i>Plenary 3 Prof. Kukjin Chun</i>	<i>Room #1 Zoom Webinar</i>
<i>12.30-13.00</i>	<i>Break (Networking)</i>	<i>Room #1 Zoom Webinar</i>

	<i>Session)</i>	
<i>13.00-14.30</i>	<i>Plenary 4 Prof. Akinori Nishihara</i>	<i>Room #1 Zoom Webinar</i>
<i>14.30-15.30</i>	<i>Keynote IC - 1 : Prof Yves Lepage</i>	<i>Room #2 Zoom Webinar</i>
<i>15.30-16.30</i>	<i>Keynote IC - 2 : Dr Henrik Skibbe</i>	<i>Room #2 Zoom Webinar</i>
<i>16.30-17.30</i>	<i>Keynote IC - 3 : Prof Lance Fung</i>	<i>Room #2 Zoom Webinar</i>
<i>17.30-18.30</i>	<i>Break (Networking Session)</i>	<i>Room #1 Zoom Webinar</i>
<i>18.30-19.30</i>	<i>Keynote IC - 4 : Prof Wisnu Jatmiko</i>	<i>Room #2 Zoom Webinar</i>
<i>19.30-21.00</i>	<i>Closing Ceremony</i>	<i>Room #1 Zoom Webinar</i>

PLENARY SPEAKERS

- Prof. Toshio Fukuda (Meijo University, Japan)
- Prof. Kukjin Chun (Seoul National University, South Korea)
- Prof. Akinori Nishihara (Tokyo Institute of Technology, Japan)
- Prof. Anil K. Jain (Michigan State University, USA)

KEYNOTE SPEAKERS

- Prof. Yves Lepage (Waseda University, Japan)
- Professor Lance Chun Che Fung (Murdoch University, Australia)
- Henrik Skibbe, Dr. rer. nat. (RIKEN Center for Brain Science, Japan)
- Prof. Wisnu Jatmiko, S.T., M.Kom., Dr. Eng. (Universitas Indonesia, Indonesia)

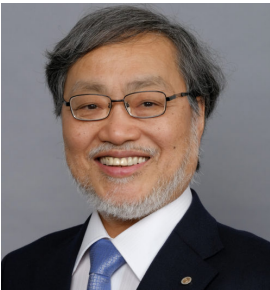
Plenary Speakers

Prof. Toshio Fukuda

2020 IEEE President

Meijo University, Japan; Beijing Institute of Technology, China

Profile



Toshio Fukuda (LF'16) received the B.S. degree from Waseda University, Tokyo, Japan, in 1971, and the M.S. and Ph.D. degrees from the University of Tokyo, Tokyo, in 1973 and 1977, respectively, all in mechanical engineering. From 1977 to 1982, he was with the National Mechanical Engineering Laboratory, Tsukuba, Japan. From 1982 to 1989, he was with the Science University of Tokyo. He was a Professor with the Department of Micro System Engineering, Nagoya University, Nagoya, Japan, from 1989 to 2013. He is currently a Professor with Meijo University, Nagoya, and a Professor with the Beijing Institute of Technology, Beijing, China, mainly involved in the research fields of intelligent robotic systems, cellular robotic systems, mechatronics, and micro/nanorobotics. Prof. Fukuda was the President of the IEEE Robotics and Automation Society from 1988 to 1999, the Editor-in-Chief for the IEEE/ASME Transactions on Mechatronics from 2000 to 2002, the Director of the IEEE Division X: Systems and Control from 2001 to 2002 and from 2017 to 2018, the IEEE Founding President for the Nanotechnology Council from 2002 to 2003 and in 2005, and the Director of Region 10 from 2013 to 2014. In 2019-2020, He became president of IEEE.

Prof. Kukjin Chun

Seoul National University,
Department of Electrical and Computer Engineering, South Korea

Profile



Kukjin Chun received a BS degree from Seoul National University in Korea and a PhD degree from the Electrical Engineering and Computer Science department of the University of Michigan majored in MEMS. He was an Assistant professor at the Electrical Engineering department of Washington State University and is now a Professor at the Electrical and Computer Engineering department of Seoul National University (SNU), where he served as head of the department in 2009-2011. He also served as the director of the Inter-university Semiconductor Research Center of SNU in 2005. He has been an outside director of Daeduk GDS company of Korea. He served as Vice-chair and Secretary of IEEE Region 10 in 2009-2012 and is now the Award Chair. He served as Seoul Section Chair in 2007 and is now a member of IEEE MGA SDEA committee. He was the President of the Institute of Electronics Engineers of Korea with the largest membership in 2012 and now a President-Elect of Korea Sensor Society. He has been a member of the National Academy of Engineering of Korea since 2007. He served as an editorial board member of Journal of Micromechanics and Microengineering and is a fellow of the Institute of Physics in UK. He was a Founding Editor-in-Chief of the Journal of Sensor Science and Technology in 2011 and Editor-in-Chief of the Journal of Semiconductor Technology and Science from 2005 to 2008. He is also serving on the International Editorial Advisory Committee of the Institute of Electrical Engineering of Japan and International Advisory Board member of the LIMMS of University of Tokyo.

Prof. Akinori Nishihara

Tokyo Institute of Technology, Japan

Profile



Akinori Nishihara received the B.E., M.E. and Dr. Eng. degrees in electronics from Tokyo Institute of Technology in 1973, 1975 and 1978, respectively. Since 1978 he has been with Tokyo Institute of Technology, where he is now Designated Professor at HAPPIER (Human Assets Promotion Program for Innovative Education and Research) after his retirement in 2016 as Professor at Department of Human System Sciences, Decision Sciences and Technology. His research interests are in signal processing and educational technology. He has published more than 300 technical papers in refereed international journals and conferences. He served as an Associate Editor of the IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences from 1990 to 1994, and then an Associate Editor of the Transactions of IEICE Part A (in Japanese) from 1994 to 1998. He was an Associate Editor of the IEEE Transactions on Circuits and Systems II from 1996 to 1997 and Editor-in-Chief of Transactions of IEICE Part A (in Japanese) from 1998 to 2000. He was Chair of the IEICE Technical Group on Circuits and Systems from 1997 to 1998, and served as an Advisor of that Technical Group from 1998 to 2011. He served as Vice President, Service Activities of the IEICE Engineering Sciences Society, Director, Conferences, Student Activities and Education during 2007-2009, and Director, General Affairs during 2011-2013. He has been serving in IEEE Region 10 Executive Committee, as Student Activities Committee Chair (1996-1996), Treasurer (1999-2000), Educational Activities Committee Chair (2001-2004), Strategic Planning Coordinator (2007-2010), History Coordinator (2016), and Director-Elect (2017-2018). He is currently (2019-2020) a member of IEEE Board of Directors as Region 10 Director.

Prof. Anil K. Jain

Michigan State University, USA

Profile

Anil K. Jain (PhD, 1973, Ohio State University; B. Tech., IIT Kanpur) is a University Distinguished Professor at Michigan State University where he conducts research in pattern recognition, machine learning, computer vision, and biometrics recognition. He was a member of the United States Defense Science Board and Forensics Science Standards Board. His prizes include Guggenheim, Humboldt, Fulbright, and King-Sun Fu Prize. For advancing pattern recognition, Jain was awarded Doctor Honoris Causa by Universidad Autónoma de Madrid. He was Editor-in-Chief of the IEEE Transactions on Pattern Analysis and Machine Intelligence and is a Fellow of ACM, IEEE, AAAS, and SPIE. Jain has been assigned 8 U.S. and Korean patents and is active in technology transfer for which he was elected to the National Academy of Inventors. Jain is a member of the U.S. National Academy of Engineering (NAE), foreign member of the Indian National Academy of Engineering (INAE), a member of The World Academy of Science (TWAS) and a foreign member of the Chinese Academy of Sciences (CAS).

Keynote Speakers

Prof. Yves Lepage

Waseda University, Japan

Profile



Yves Lepage is Professor at the Graduate School of Information, Production, and Systems, Waseda University, Japan. His research focuses on the topics of Example-Based Machine Translation and Natural Language Processing (NLP), aiming to formalize some example-based techniques, like analogy, and apply them to natural language applications such as automatic production of dictionaries, alignment, paraphrasing, machine translation. He is also a member of the Reviewing Committee of the *Traitement Automatique des Langues (TAL) Journal*, Japanese Natural Language Processing Association, ATALA French Natural Language Processing Association (Member of the Board), and Information Processing Society of Japan.

Professor Lance Chun Che Fung

Murdoch University, Australia

Profile



Prof. Fung was born in Hong Kong and trained in the Hong Kong Polytechnic as a Marine Radio and Electronic Officer. He graduated with a Bachelor of Science Degree with First Class Honours in Maritime Studies and a Master of Engineering Degree in System Test Technology from the University of Wales, Institute of Science and Technology (UWIST) in 1981 and 1982 respectively. His Ph.D. degree was awarded by the University of Western Australia (UWA) in 1994 with a study on the Applications of

Artificial Intelligent Techniques to Electrical Power System Engineering. Prof. Fung taught at the Department of Electronics and Communication Engineering, Singapore Polytechnic from 1982 to 1988; and at the School of Electrical and Computer Engineering, Curtin University of Technology between 1989 and 2003. He joined Murdoch University in 2003 and was appointed as Emeritus Professor in 2015. In 2017, he was awarded an Honorary Ph.D. Degree in Information Technology by Walailak University, Thailand, in recognition of his contributions towards the development and advancement of their research and postgraduate programs. Prof. Fung has been a dedicated volunteer at the Institute of Electrical and Electronic Engineering (IEEE) for over two decades. He has served in many positions in the executive committees of Technical Society Chapters, WA Section, Australia Council, and R10 Ex-Com. He has been a member of the Board of Governors in the IEEE Systems, Man and Cybernetic Society (2010-2015) served as Chair of the IEEE New Initiative Committee (NIC), Conference Quality Committee (CQC), IEEE Technical Program Integrity Committee (TPIC) and currently as IEEE R10 Chair of Educational Activities Committee.

Henrik Skibbe, Dr. rer. nat.

RIKEN Center for Brain Science, Japan

Profile

Henrik Skibbe currently holds the position of Unit Leader at the Brain Image Analysis Unit, RIKEN Center for Brain Science (CBS), Japan. The Brain Image Analysis Unit develops new algorithms for the processing and analysis of multi-modal brain imaging data such as two-photon, bright-field microscopy images, and MRI.

He received his Dr. rer. nat. degree from the University of Freiburg, Germany in 2013. He worked at the Department of Radiology - Medical Physics at the University Medical Center Freiburg from 2012 to 2013 before he started his work as a postdoctoral researcher at the Integrated Systems Biology Laboratory at Kyoto University from 2013. In 2019, he started working at RIKEN CBS.

Prof. Wisnu Jatmiko, S.T., M.Kom., Dr. Eng.

Universitas Indonesia, Indonesia

Profile

Born in Surabaya, Wisnu Jatmiko received his Bachelor's degree in Electrical Engineering from The Faculty of Engineering and M.Sc. degree from The Faculty of Computer Science, both are received from Universitas Indonesia in 1997 and 2000 respectively. In 2007, he received his Dr. Eng. degree from The Micro-Nano Systems Engineering, Nagoya University, Japan. Currently, he works at the Faculty of Computer Science, University of Indonesia, Indonesia as a lecturer, and from September 2017 became a full Professor. With his guidance, his students have succeeded in entering several top universities in the world, such as Tokyo University, Nagoya University, Edinburgh University, Minnesota University, National University of Singapore, etc. From 2008 – 2012 and 2013 – 2017, he holds the Research Manager position at the Faculty of Computer Science for 2 periods. Then From 2017-2021, he holds the head of Master and Doctoral Programs in Computer Science, at the Faculty of Computer Science, Universitas Indonesia. He also holds the IEEE (The Institute of Electrical and Electronics Engineers) Indonesia Section Chair from 2019-2020 as well as a Senior Member IEEE (SMIEEE). Prof. Wisnu Jatmiko is regarded as a highly productive researcher. He has received over 50 grants as the main researcher. He has also more than 150 international publications that are mostly indexed in Scopus and Google Scholar. In addition, he has already published more than 10 books and produced 10 copyrights of computer software from his research products.

TECHNICAL PROGRAM ICAC SIS 2020**Day 1**

Session 1: Algorithms 1
 Venue: Room #2, Webex
 Session Chair: Fariz Darari, Ph.D.

Saturday, October 17, 2020
 08.00-10.00

- 1595 **Inverse Distance Weighted Random Forests: Modeling Unevenly Distributed Non-Stationary Geographic Data**
 Liangdong Deng, Malek Adjouadi, Naphtali Rishé
- 1613 **An Implementation of Area Skyline Query to Select Facilities Location Based On User's Preferred Surrounding Facilities**
 Taufik Djatna, Farhan Hanif Putra, Annisa Annisa
- 1669 **Minimal Explanations in ReLU-based Neural Network via Abduction**
 Ariel Miki Abraham, Ari Saptawijaya, Raja Oktovin Parhasian Damanik
- 1456 **Least Square Adversarial Autoencoder**
 Marshal Arijona Sinaga, Lim Yohanes Stefanus
- 1668 **Ballot-polling Risk-limiting Audit for Selection of Condorcet Winner**
 Gilbert Hedison, Ari Saptawijaya

Session 2:

Machine Learning and Deep Learning 1

Venue: Room #3, Webex

Session Chair: Dr. Evi Yulianti

Saturday, October 17, 2020

08.00-10.00

1637 **Activity Detection of Untrimmed CCTV ATM Footage Using 3D Convolutional Neural Network**

Aldi Hilman Ramadhani, Dina Chahyati

1487 **Deep Learning for Roasting Coffee bean Quality Assessment Using Computer Vision in Mobile Environment**

Muslih Hakim, Taufik Djatna, Indah Yuliasih

1649 **Fall Detection on Multimodal Dataset using Convolutional Neural Network and Long Short Term Memory**

Rehan Hawari, Dina Chahyati

1594 **UniNet: Next Term Course Recommendation using Deep Learning**

Nicolas Araque, Germano Rojas, Maria Virginia Vitali

1647 **Visual Question Answering for Monas Tourism Object using Deep Learning**

Ahmad Hasan Siregar, Dina Chahyati

Session 3: Enterprise

Venue: Room #4, Webex

Session Chair: Adila A. Krisnadi, Ph.D.

Saturday, October 17, 2020

08.00-10.00

- 1646 **Blockchain Modeling for Traceability Information System in Supply Chain of Coffee Agroindustry**
I Gusti Made Teddy Pradana, Taufik Djatna, Irman Hermadi
- 1467 **Critical Success Factors in Managing Project Using IS/IT: Case Study for Projects in Indonesia During COVID-19 Pandemic**
Andi Wahbi, Teguh Raharjo, Bob Hardian
- 1491 **Impact of Strategic Alignment on Company Performance: An approach based on PIS design**
Azzouz Mahdia, Boukhedouma Saida, Alimazighi Zaia
- 1582 **Scrum Evaluation to Increase Software Development Project Success: A Case Study of Digital Banking Company**
Andrean Taufiq, Teguh Raharjo, Andi Wahbi
- 1639 **Usability, Accessibility and Vulnerability Evaluation of Pakistani and International Banking Websites – A Comparative Study**
Kiran Fatima, Narmeen Zakaria Bawany, Muniba Bukhari

Session 4: Algorithms 2

Venue: Room #2, Webex

Session Chair: Adila A. Krisnadi, Ph.D.

Saturday, October 17, 2020

10:00-12:00

1667 **Actual Causality in Contextual Abduction**

Degoldie Sonny, Ari Saptawijaya, Raja Oktovin Parhasian Damanik

1608 **D-PRESENT: A Lightweight Block Cipher with Dynamic Key-Dependent Substitution Boxes**

Ronniel D. Labio, Enrique D. Festijo

1457 **Performance Analysis of Deep Anomaly Detection Algorithms for Commercial Microwave Link Attenuation**

Olof Engström, Sahar Tahvili, Auwn Muhammad, Forough Yaghoubi, Lissy Pellaco

1622 **Time Series Forecasting by Hybrid Soft Computing Model**

Bonnie Alexandra Kalinggo, Zulkarnain

1664 **A Practical Evaluation of Dynamic Time Warping in Financial Time Series Clustering**

Pratiwi Eka Puspita, Zulkarnain

Session 5:

Machine Learning and Deep Learning 2

Venue: Room #3, Webex

Session Chair: Dr. Laksmi Rahadianti

Saturday, October 17,
2020

10:00-12:00

- 1471 **Predicting Mineral Sites through Machine Learning Model of Buffer Zone Geophysical and Geochemical Trends**
Jonathan Mahendra Capella Dewaputra, Lucas Elbert Suryana
- 1633 **Sequential Pattern Mining for e-Commerce Recommender Systems**
Ridho Trivonanda, Rani Aulia Hidayat, Rahmad Mahendra, Indra Budi
- 1656 **Site Selection of Retail Shop Based on Spatial Analysis and Machine Learning**
Khairunnisa Mazhi, Abu Davi, Lucas Suryana, Widwiyaswati Dewi
- 1665 **Time Series Analysis on Earthquakes Using EDA and Machine Learning**
Muhammad Fakhrillah Abdul Azis, Fariz Darari, Muhammad Rizqy Septyandy

Session 6: Information System

Venue: Room #4, Webex

Session Chair: Suryana Setiawan, Ph.D.

Saturday, October 17, 2020

10:00-12:00

- 1469 **Bridging the .id Domain Purchase Intention with Website Channels: Factors Analysis Approach**
Wahyu Aditya, Wahyu Aditya, Yudho Giri Sucahyo, Arfive Gandhi
- 1443 **Determinant Factors to Become Gig Worker in Online Course**
Ifa Alif, Yudho Giri Sucahyo, Arfive Gandhi
- 1439 **Mutual Fund Usage Behaviour in Indonesia: Comparative Study of Investor Risk Profile Groups**
Purwo Aji Fahmi Akmal, Putu Wuri Handayani, Fatimah Azzahro
- 1478 **Passengers Acceptance of Cashless Payment System for Public Bus Transportation System in Kigali City (Rwanda)**
Sosthene Bwigenge, Dana Indra Sensuse, Kautsarina, Ryan Randy Suryono
- 1447 **The Influence of Social Media Charitable Advertising Value on Prosocial Behavior using Moderating Effect of Income**
Debora Dian Pratama Budiharja, Putu Wuri Handayani, Ave Adriana Pinem

Session 7:

Bioinformatics and Biomedical Applications 1

Venue: Room #2, Webex

Session Chair: Fariz Darari, Ph.D.

Saturday, October 17,

2020

13:00-15:00

- Deep Learning for Analyzing Thyroid Nodule Malignancy Based on the Composition Characteristic of the Ultrasonography Images**
1593 Hanung Adi Nugroho, Eka Legya Frannita, Augustine Herini Tita Hutami, Lina Choridah, Nurhuda Hendra Setiawan, Rizki Nurfauzi
- Drug-Target Interaction Prediction in Coronavirus Disease 2019 Case Using Deep Semi-Supervised Learning Model**
1496 Faldi Sulistiawan, Nabila Sekar Ramadhanti, Wisnu Ananta Kusuma, Aryo Tedjo
- Melanoma Skin Cancer Detection Using Deep Learning and Advanced Regularizer**
1559 Md. Arman Hossin, Farhan Fuad Rupom, Hasibur Rashid Mahi, Anik Sarker, Farshid Ahsan, Sadman Warech
- Morpho-Geometrical Feature Extraction of Thin Blood Smear Microphotograph for Malaria Plasmodia Species and Life Stage Determination**
1550 Anto Satriyo Nugroho, Tommy Winarta, Yulius Wibisono, Maulahikmah Galinium, Ismail Ekoprayitno Rozi, Puji Budi Setia Asih

Session 8: Image Processing

Venue: Room #3, Webex

Session Chair: Suryana Setiawan, Ph.D.

Saturday, October 17, 2020

13:00-15:00

- 1578 **Active Contour Without Edge and Watershed for Follicle Detection in Ultrasound Image of Ovary**
Eliyani, Sri Hartati, Aina Musdholifah, Djaswadi Dasuki
- 1476 **An Introductory Study on Image Quality of Dehazed Images**
Aruni Yasmin Azizah, Laksmi Rahadiani, Hilda Deborah
- 1475 **Depth Estimation from Single Hazy Images with 2-Phase Training**
Laksmi Rahadiani, Fumihiko Sakaue, Jun Sato
- 1661 **Tourism Object Detection Around Monumen Nasional (Monas) Using YOLO and RetinaNet**
Median Hardiv Nugraha, Dina Chahyati

Session 9: E-Commerce

Venue: Room #4, Webex

Session Chair: Dr. Betty Purwandari

Saturday, October 17, 2020

13:00-15:00

- 1452 **Analysis of Internal and External Factors Affecting Online Privacy Concern in e-Commerce Comparative Study by Gender**

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- 1461 **Analysis of The Effect of Social Support on Trust on Social Commerce and Its Impact on Intention to Purchase and Actual Purchase: Trust-Transfer Perspective**

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- 1623 **Assessing E-commerce Websites: Usability and Accessibility Study**

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- 1464 **Hotel Revenue Manager Segmentation Based on Their Behavior and Motivation While Using Online Travel Agent Supplier System**

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- 1438 **The Influence of Perceived Value and User Satisfaction on Flight Ticket Booking Application User Loyalty in Indonesia**

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- 1654 **Automated prediction of Coronary Artery Disease using Random Forest and Naïve Bayes**
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- 1498 **Single Nucleotide Polymorphism and Type 2 Diabetes Mellitus Phenotypes Association Using Gradient Boosting**
Aulia Fadli, Wisnu Ananta Kusuma, Lailan Sahrina Hasibuan, Rudi Heryanto
- 1610 **Adverse Drug Reactions Prediction Using Multi-label Linear Discriminant Analysis and Multi-label Learning**
Afdhal Dinilhak, Wisnu Ananta Kusuma, Sony Hartono Wijaya

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- 1568 **A Low-Cost IoT Platform for Crowd Density Detection in Jakarta Commuter Line**
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- 1571 **An Investigation Into The Level Of Valence Offered By Different Pointing Devices Against Challenging Tasks**
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- 1564 **Path Selection in Software Defined Network Data Plane Using Least Loaded Path**
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1635 **Empirical Evaluation of the Impact of Refactoring on Internal Quality Attributes**

Muhammad Riansyah Tohamba, Petrus Mursanto

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Fachrunisa Azziza, Lutfi Rahmatuti Maghfiroh

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- 1514 **Unpaired Abstract-to-Conclusion Text Style Transfer using CycleGANs**
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- 1482 **Vector-to-Sequence Models for Sentence Analogies**
Liyang Wang, Yves Lepage
- 1584 **Hate Speech Detection In Indonesian Language Instagram**
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- 1538 **Hierarchical Transfer Learning for Text-to-Speech in Indonesian, Javanese, and Sundanese Languages**
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- 1573 **Legal Entity Recognition in Indonesian Court Decision Document Using Bi-LSTM and CRF Approach**
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1643 **HiPAES: A Novel High Performance Parallel AES**
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1549 **Parallel Implementation in Case-based Reasoning Bankruptcy Prediction System**
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1492 **SciFlow : A Composable Framework for Developing Scientific Workflows on HPC Clusters**
Amanda Wijewickrama, Rajini Wijayawardana, Kalpani Ranasinghe, Nalin Ranasinghe, Malik Silva

1673 **Model Synthesis and Stochastic Automated Verification of Systems-of-Systems Dynamic Architectures**
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Aola Yousfi, Moulay Hafid El Yazidi, Ahmed Zellou

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Nashir Wahyudi, Takdir Takdir

1617 **Proxy-based and Pair-based Losses for Face Image Retrieval**

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Sunday, Oct 18**09.30 - 11.00 GMT+7****Plenary Speech 3: Prof. Kukjin Chun**

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Sunday, Oct 18**11.00 - 12.30 GMT+7****Plenary Speech 4: Prof. Akinori Nishihara**

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Sunday, Oct 18**13.00 - 14.30 GMT+7**

Keynote Speech 1: Prof Yves Lepage

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Sunday, Oct 18**14.30 - 15.30 GMT+7****Keynote Speech 2: Dr Henrik Skibbe**

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Sunday, Oct 18**15.30 - 16.30 GMT+7****Keynote Speech 3: Prof Lance Fung**

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