

IBIOMED 2022

Schedule

Tuesday, 18th October 2022

- 07.30 – 08.00 Registration
- 08.00 – 09.00 Opening Ceremony
- 09.00 – 10.00 Plenary Session (Keynote Speech 1) + Q&A
Prof. Johan Debayle (Ecole Nationale Supérieure des Mines de Saint-Etienne, France)
- 10.00 – 11.00 Plenary Session (Keynote Speech 2) + Q&A
Dr.Eng. Anto Satriyo Nugroho, B.Eng., M.Eng. (Research Center for Artificial Intelligence and Cyber Security, BRIN)
- 11.00 – 12.00 Plenary Session (Keynote Speech 3) + Q&A
Dr. Bernardi Pranggono BEng, MDigComms, PhD, FHEA, MIEEE (Department of Engineering and Matematics Sheffield Hallam University, UK)
- 12.00 – 13.00 **Break**
- 13.00 – 15.00 ICITEE Parallel Session
- 15.00 – 15.30 **Break**
- 15.30 – 17.30 ICITEE Parallel Session

Wednesday, 19th October 2022

- 08.30 – 09.00 Registration
- 09.00 – 11.00 CITEE and IBIOMED Parallel Session
- 11.00 – 11.30 Closing Ceremony, Best Papers Announcement, and ICITEE 2023 Location Announcement

Time in UTC+7

PARALLEL SESSION

		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6
Tuesday, October 18, 2022	13.00-15.00 (UTC+7)	CNT-1	CS-1	IT-1	IT-11	SPMI-6	SPMI-1
		CNT-2	CS-2	IT-2	IT-12	SPMI-7	SPMI-2
		ECS-1	CS-3	IT-3	IT-13	SPMI-8	SPMI-3
		ECS-2	CS-4	IT-4	IT-14	SPMI-9	SPMI-4
		ECS-3	CS-5	IT-5		SPMI-10	SPMI-5
	15.30-17.30 (UTC+7)	PS-1	CS-6	IT-6	SPMI-11	SPMI-16	SPMI-20
		PS-2	CS-7	IT-7	SPMI-12	SPMI-17	SPMI-21
		PS-3	ECS-4	IT-8	SPMI-13	SPMI-18	SPMI-22
		PS-4	PS-6	IT-9	SPMI-14	SPMI-19	
		PS-5	PS-7	IT-10	SPMI-15		
Wednesday, October 19, 2022	9.00-11.00 (UTC+7)	Comm-1	TI-1	IB-1	IB-6	IB-11	IB-16
		Comm-2	TI-2	IB-2	IB-7	IB-12	IB-17
		Comm-3	TI-3	IB-3	IB-8	IB-13	IB-18
		Comm-4	SIE-1	IB-4	IB-9	IB-14	
			SIE-2	IB-5	IB-10	IB-15	

IBIOMED 2022

List of Papers

No.	Paper Code	Paper Title	Author(s)
1	IB-1	Quantification of Type III Collagen Deposition Density from Photomicrograph of Vaginal Connective Tissue	Muhammad Arfan (Institut Teknologi Bandung, Indonesia), Hasballah Zakaria (Institut Teknologi Bandung, Indonesia)
2	IB-2	VaderLogRest Algorithm: An Ensemble Learning Approach for Sentiment Analysis on Vaccination Tweets	Vijayarajan Rajangam (Vellore Institute of Technology, India), Ojaswa Yadav (Vellore Institute of Technology, India), Faiz Khan (Vellore Institute of Technology, India), Mridul Shukla (Vellore Institute of Technology, India), Sangeetha N (Vellore Institute of Technology, India)
3	IB-3	A Prototype Low-Cost Pharyngeal Vibration Device for Voice Rehabilitation Following Laryngectomy	Ricky Hu (University of British Columbia, Canada), Justin KM Wyss (University of British Columbia, Canada), Prateek Mathur (University of British Columbia, Canada), Houssam El-Hariri (University of British Columbia, Canada), Pardiss Danaei (University of British Columbia, Canada), Harman Parhar (University of British Columbia, Canada), Ameen Amanian (University of British Columbia, Canada), Donald Anderson (University of British Columbia, Canada)
4	IB-4	The Impact of Filtering for Breast Ultrasound Segmentation Using A Visual Attention Model	Dian Nova Kusuma Hardani (Universitas Gadjah Mada, Yogyakarta; Universitas Muhammadiyah Purwokerto, Indonesia), Hanung Adi Nugroho (Universitas Gadjah Mada, Yogyakarta), Igi Ardiyanto (Universitas Gadjah Mada, Yogyakarta)
5	IB-5	IoT Based Pre-Operative Prehabilitation Program Monitoring Model: Implementation and Preliminary Evaluation	K Al-Naime (Auckland University of Technology, New Zealand), A Al-Anbuky (Auckland University of Technology, New Zealand), G Mawston (Auckland University of Technology, New Zealand)
6	IB-6	Acute Lymphoblastic Leukemia Image Classification Performance with Transfer Learning Using CNN Architecture	Aiman Muhamad Basymeleh (Universitas Brawijaya, Indonesia), Bagus Esa Pramudya (Universitas Brawijaya, Indonesia), Reinato Teguh Santoso (Universitas Brawijaya, Indonesia)
7	IB-7	Leveraging Machine Learning and Model-Agnostic Explanations to Understand Automated Diagnosis of Cardiovascular Disease	Christopher Sun (Monta Vista High School, United States), Jai Sharma (Monta Vista High School, United States), Milind Maiti (Monta Vista High School, United States)
8	IB-8	A Prototype of IoT-based Real-time Respiratory Rate Monitoring Using an Accelerometer Sensor	Muhammad Hanif Andarevi (Swiss German University, Indonesia), Aulia Arif Iskandar (Swiss German University, Indonesia)
9	IB-9	A Microfluidic Channel for Separation of Circulating Tumor Cells from Blood Cells Using Dielectrophoresis and Its Performance Analysis Using Adaptive Neuro-Fuzzy Inference System	Mir Ashib Ullah (Islamic University of Technology, Bangladesh), Fazlul Rafeun Khorshed (Islamic University of Technology, Bangladesh), Md. Ruhul Amin (Islamic University of Technology, Bangladesh)
10	IB-10	Review of Brain MRI Image Segmentation Based on Deep Learning Method	Sekar Sari (Universitas Gadjah Mada, Indonesia), Wirawan Setyo Prakoso (Universitas Gadjah Mada, Indonesia), Indah Soesanti (Universitas Gadjah Mada, Indonesia)

11	IB-11	Detection of COVID-19 Using CNN's Deep Learning Method: Review	Ade Sitti Nur Zainab (Universitas Gadjah Mada, Indonesia), Indah Soesanti (Universitas Gadjah Mada, Indonesia), Dzuhri Radityo Utomo (Universitas Gadjah Mada, Indonesia)
12	IB-12	NLP Analysis of COVID-19 Radiology Reports in Indonesian Using IndoBERT	Nunung Nurul Qomariyah (Bina Nusantara University, Indonesia), Tianda Sun (University of York, United Kingdom), Dimitar Kazakov (University of York, United Kingdom)
13	IB-13	Optic Disc Segmentation Based on Mask R-CNN in Retinal Fundus Images	I Gede Pande Darma Suardika (Universitas Pendidikan Ganesha, Indonesia), I Md. Dendi Maysanjaya (Universitas Pendidikan Ganesha, Indonesia), Made Windu Antara Kesiman (Universitas Pendidikan Ganesha, Indonesia)
14	IB-14	Cervical Cancer Image Processing with Convolutional Neural Network for Detection	Aulia Arif Iskandar (Swiss German University, Indonesia), Elnora Listianto Lie (Swiss German University, Indonesia), Kholis Abdurachim Audah (Swiss German University, Indonesia), Rose Khasana Dewi (Brawijaya University, Indonesia)
15	IB-15	Breast Cancer Image Pre-Processing with Convolutional Neural Network for Detection and Classification	Aulia Arif Iskandar (Swiss German University, Indonesia), Michael Jeremy (Swiss German University, Indonesia), Muhammad Fathony Swiss (German University, Indonesia)
16	IB-16	Image Enhancement Techniques on Chest X-Ray Images to Improve COVID-19 Detection	Tengku Muaz Abdussalam (Universitas Gadjah Mada, Indonesia), Hanung Adi Nugroho (Universitas Gadjah Mada, Indonesia), Indah Soesanti (Universitas Gadjah Mada, Indonesia)
17	IB-17	Detecting Pregnancy Risk Type Using LSTM Algorithm	Galih Malela Damaraji (Universitas Gadjah Mada, Indonesia), Adhistya Erna Permanasari (Universitas Gadjah Mada, Indonesia), Indriana Hidayah (Universitas Gadjah Mada, Indonesia), Michael Stephen Moses Pakpahan (Universitas Gadjah Mada, Indonesia), Ajie Kusuma Wardhana (Universitas Gadjah Mada, Indonesia)
18	IB-18	Development of Gamification Design on Heart Anatomy Learning Media	Zahra'ul Athiyah (Universitas Gadjah Mada, Indonesia), Adhistya Erna Permanasari (Universitas Gadjah Mada, Indonesia), Sunu Wibirama (Universitas Gadjah Mada, Indonesia)