MAPR 2022 Conference Agenda (Tentative)

October 13th, 2022 Place: Novotel Hotel, Phu Quoc

08:00am-08:30am	Registration
08:30am-08:45am	Opening and Welcome Addresses
	Welcome speech, Prof. Tu-Anh Nguyen-Hoang, UIT, General
	Co-Chair
	Conference summary, Prof. Duc-Dung Nguyen, PC Co-Chair
08:45am-09:30am	Keynote 1: Action Recognition for People Monitoring
	Speaker: Professor François Brémond (STARS - INRIA -
	Sophia Antipolis, France)
	Chair: Prof. Thi-Lan Le, SEEE, HUST
09:30am-10:30am	Session 1-A: Object Detection and Recognition
	Chair: Dr. Tuan-Anh Tran, VinAl
	1. Phuc Tran Chi, Anh-Khoa Nguyen Vu and Vinh-Tiep
	Nguyen, Baby Learning With Vision Transformer For Face
	Recognition
	2. Adri Priadana, Muhamad Dwisnanto Putro and
	Kang-Hyun Jo, An Efficient Face-Based Age Group
	Detector On A Cpu Using Two Perspective Convolution
	With Attention Modules
	3. Viet Hang Duong, Manh Quan Bui and Jia Ching Wang, A
	Wise Matrix Factorization Model For Image
	Representation
	4. Duy-Linh Nguyen, Dwisnanto Putro, Xuan-Thuy Vo,
	Tien-Dat Tran and Kang-Hyun Jo, <i>Fire Warning Based On</i>
	Convolutional Neural Network And Inception Mechanism

10:30am-10:45am	Coffee Break
10:45am-12:00pm	Session 1-B: Multimedia Analysis Chair: Professor Hiroo Sekiya, Chiba, Japan 1. Thanh Tuan Nguyen, Thanh Phuong Nguyen and Thanh-Hai Tran, Detecting Reflectional Symmetry Of Binary Shapes Based On Generalized R-Transform 2. Thi-Lich Nghiem, Viet-Duc Le, Thi-Lan Le, Pierre Maréchal, Daniel Delahaye and Andrija Vidosavljevic, Applying Bayesian Inference In A Hybrid CNN-LSTM Model For Time Series Prediction 3. Thanh Tuan Thai, Youngsik Yun and Heejune Ahn, High-Quality 3D Clothing Reconstruction And Virtual-Try-On: Pants Case 4. Manh Khanh Ngo Huu, Vinh Quang Ngo, Thanh-Danh Nguyen, Vinh-Tiep Nguyen and Thanh Duc Ngo, Antique Photo Restoration And Colorization Via Generative Model 5. Ha Do Thanh and Hoa Nguyen Khanh, Supporting Thyroid Cancer Diagnosis Based On Cell Classification Over Microscopic Images
12:00pm-01:30pm	Lunch Break
01:30pm-02:15pm	Keynote 2: Drone Imagery for Artificial Intelligence Service Speaker: Professor Kanghyun Jo (School of Electrical Engineering, University of Ulsan, Korea) Chair: Prof. Duc-Dung Nguyen, VAST, Vietnam
02:15pm-03:30pm	Session 1-C: Object Tracking and Activity Recognition Chair: Prof. Francois Bremond, INRIA, France 1. Hieu Le Trung, Thanh-Hai Tran and Cuong Pham, Human Action Recognition From Inertial Sensors With

	Transformer
	2. Phuong-Dung Nguyen, Hong-Quan Nguyen, Thuy-Binh
	Nguyen, Thi-Lan Le, Thanh-Hai Tran, Hai Vu and Quynh
	Nguyen Huu, A New Dataset And Systematic Evaluation
	Of Deep Learning Models For Student Activity
	Recognition From Classroom Videos
	3. Xuan-Thuy Vo, Tien-Dat Tran, Duy-Linh Nguyen and
	Kang-Hyun Jo, Balancing Multiple Object Tracking
	Objectives Based On Learned Weighting Factors
	4. Hong-Quan Nguyen, Thuy-Binh Nguyen, Kien Tran,
	Van-Nam Hoang, Thi-Lan Le, Thanh-Hai Tran and Hai Vu,
	End-To-End Deep Learning-Based Framework For Driver
	Action Recognition
	5. Tien-Dung Mai, Tien Do and Duy-Dinh Le, A Framework
	For Evaluating Video Summary Approaches
03:30pm-03:45pm	Coffee Break
03:45pm-05:15pm	Session 1-D: Text and Image Processing Techniques
	Chair: Prof. Kanghyun Jo, Ulsan, Korea
	1. Doanh Bui Cao, Nghia Nguyen Hieu, Nguyen Vo Duy, Uyen
	Thai Thuy Han and Khang Nguyen Tan Tran Minh,
	Vi-Drsnet: A Novel Hybrid Model For Vietnamese Image
I	VI Dishet. A Novel Hybrid Model For Victialnese image
	Captioning In Healthcare Domain
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	Captioning In Healthcare Domain 2. Thai Uyen, Efficient Construction For Path Expression In
	Captioning In Healthcare Domain 2. Thai Uyen, Efficient Construction For Path Expression In XML Data
	Captioning In Healthcare Domain 2. Thai Uyen, Efficient Construction For Path Expression In XML Data 3. Bich-Van Nguyen-Thi, Triet Le Phan, Thua Ngoc Nguyen
	 Captioning In Healthcare Domain Thai Uyen, Efficient Construction For Path Expression In XML Data Bich-Van Nguyen-Thi, Triet Le Phan, Thua Ngoc Nguyen and Thanh Duc Ngo, A Crowdsourcing Data Annotation
	Captioning In Healthcare Domain 2. Thai Uyen, Efficient Construction For Path Expression In XML Data 3. Bich-Van Nguyen-Thi, Triet Le Phan, Thua Ngoc Nguyen and Thanh Duc Ngo, A Crowdsourcing Data Annotation System For Vietnamese Scene Text Detection

	Images 5. Dinh Luu Toan, Ngan Nguyen Luu Thuy, Thanh Pham Thua Tieu and Tien Dang Quoc, Viembot: A Empathetic Voicebot System For The Vietnamese Language
06:00pm-09:00pm	Gala Diner Best Paper Awards Chair: Prof. Duc-Dung Nguyen, VAST, Vietnam

October 14th, 2022 Place: Novotel Hotel, Phu Quoc

08:30am-09:15am	Keynote 3: Wireless Brain-Inspired Computing (WiBIC)
	Speaker: Professor Hiroo Sekiya (Graduate School of
	Engineering, Chiba University, Chiba, Japan)
	Chair: Prof. Duc-Thanh Ngo, UIT, Vietnam
09:15am-10:15am	Session 2-A: Object Detection and Classification
	Chair: Prof. Thanh-Phuong Nguyen, Toulon, France
	1. Thanh Ha Do, Huy Le and Trung Hieu Ha, <i>Covid-Net</i>
	Network And Application On Support Diagnosis Covid-19
	Over X-Ray Images
	2. Thi-Anh-Loan Trinh, The Anh Pham and Van-Dung Hoang,
	Layout-Invariant License Plate Detection And
	Recognition
	3. Van-Xung Vu, Thi-Nhi Bui, Thi-Lan Le, Bui Hai Phong and
	Hoang Manh Thang, Transformer-Based Method For
	Mathematical Expression Recognition In Document
	Images
	4. Minh Dinh, Vu L. Bui, Doanh C. Bui, Long Phi Duong,
	Nguyen D. Vo and Khang Nguyen, Performance
	Evaluation of Optimizers For Deformable-Detr In Natural
	Disaster Damage Assessment
10:15am-10:30am	Coffee Break
10:30am-11:15am	Tutorial: StyleGAN Series And Their Applications In Image
	Generation And Manipulation
	Speaker: Dr. Anh Tran, VinAl Research
	Chair: Prof. Thanh-Hai Tran, SEEE, HUST
11:15am-12:30pm	Session 2-B: Deep Learning for Multimedia Analysis

	Chair: Dr. Khoi Nguyen, VinAl Research
	1. Huu Du Nguyen, Tai Quang Dinh Nguyen, Hien Nguyen
	Thi, Bui Quoc Lap and Thi Thu Hong Phan, <i>The Use Of</i>
	Machine Learning Algorithms For Evaluating Water
	Quality Index: A Survey And Perspective
	2. Trung Kien Tran, Chi Thanh Nguyen, Nhu Hai Phung, Thi
	Thu Hang Truong, Danh Cuong Tran, Thi Trang Nguyen
	and Thi Minh Phuong Nguyen, Evaluation Of Synthetic
	Data Generating Methods In Down Syndrome Prediction
	During The First Trimester Screening In Vietnam
	3. Thuan Nguyen Duc, Thai Hoang Anh, Manh Bui Quang,
	Trung Tran Quang and Hong Hoang Si, <i>Edge-Focus</i>
	Thermal Image Super-Resolution Using Generative
	Adversarial Network
	4. Hoang-Anh Nguyen, Hong-Quan Nguyen, Thuy-Binh
	Nguyen, Van-Chien Pham and Thi-Lan Le, Exploiting
	Matching Local Information For Person Re-Identification
	5. Sinh-Huy Nguyen, Thi-Thu-Hong Le, Thanh-Tung Phan,
	Hoang-Bach Nguyen, Hai Vu and Chi-Thanh Nguyen,
	Improving The Hand Pose Estimation From Egocentric
	Vision Via Hope-Net And Mask R-CNN
12:30pm-02:00pm	Lunch Break
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02:00pm-02:45pm	Tutorial: Few-Shot Object Segmentation In Images
	Speaker: Dr. Khoi Nguyen, VinAl Research
	Chair: Prof. Hai Vu, SEEE, HUST
02:45pm-03:45pm	Session 2-C: Al-Enabled Hardware and System-on-Chip
	1. Duc Khai Lam, Duc The Vu and Tien Dat Tran, <i>An Efficient</i>
	Image Compression Hardware Design Architecture
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	2. Duy Doan, Hoang Bui Huy and Hoa Pham Trung, An Implementation of Low-Cost Auto-Balancing Embedded
	System for Safe Mechanism Using 3-DOF Stewart Model
	3. Nhan Nguyen, Ngan Dinh, Nhut Tran And Khang Nguyen,
	Machine Learning For Assessment And Prediction Of
	Nitrite In The Aquaculture Water
	4. Huy Che Quang, Tung Do Thanh and Cuong Truong Van,
	Character Time-series Matching For Robust License
	Plate Recognition
03:45pm-04:00pm	Coffee Break
04:00pm-05:00pm	Session 2-D: Al-Enabled Hardware and System-on-Chip
	1. Duong Tran, Thinh Le, Tam Duong, Minh-Quan Pham and
	Son Nguyen, FPGA Design for Deep Q-Network: A Case
	study in Cartpole Environment
	2. Minh-Quan Pham, Hong-Phong Ly, Huy Che Quang, Tin
	Nguyen-Van, Tung Do Thanh and Minh Le-Hoang,
	Transform An Electronic Golf Cart Into An Autonomous
	Vehicle
	3. The Tung Than, Duc Khanh Duy Danh, Huu Luong Nguyen
	and Minh Son Nguyen, Researching And Implementing
	The Behavioral Recognition Algorithm Of The Elderly On
	Jetson Nano
	4. Duy Dieu Nguyen, Manh Hung Le, Xuan Huy Nguyen, Hieu
	Truong Ngo and Minh Son Nguyen, Smart Desk in Hybrid
	Classroom: Automatic Attendance System based on Face
	Recognition using MTCNN and ARCFACE
05:00pm-05:10pm	Closing Ceremony
	Prof. Duc-Dung Nguyen, VAST
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