

2022 INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND INNOVATIVE APPLICATIONS (CIIA2022)

<i>Time</i>		<i>November 25, 2022 Location: B4.5 (Building B, Floor 4)</i>	
		<i>Chair: Prof. Ho Pham Huy Anh, Assoc.Prof. Nguyen Tan Luy</i>	
10:45	11:10	Keynote Speaker 1 (Prof. Narayan C. Debnath)	RELIABILITY OF INTELLIGENT SOFTWARE SYSTEMS: AN EXCITING CHALLENGE AHEAD <i>Prof. Narayan C. Debnath, Eastern International University</i>
11:10	11:35	Keynote Speaker 2 (Prof. Ho Pham Huy Anh)	ROBUST CONTROL OF UNCERTAIN NONLINEAR SYSTEMS USING ADAPTIVE REGRESSIVE NEURAL-BASED DEEP LEARNING TECHNIQUE <i>Prof. Ho Pham Huy Anh, HCM City University of Technology</i>
11:35	12:00	Keynote Speaker 3 (Prof. Trung Q. Duong)	EDGE INTELLIGENCE-BASED ULTRA-RELIABLE AND LOW-LATENCY COMMUNICATIONS FOR DIGITAL TWIN-ENABLED METAVERSE <i>Prof. Trung Q. Duong, Queen's University Belfast (UK)</i>
12:00	12:25	Keynote Speaker 4 (Dr. Antonino Masaracchia)	DIGITAL TWIN FOR OPEN RAN: TOWARDS INTELLIGENT AND RESILIENT 6G RADIO ACCESS NETWORKS <i>Dr. Antonino Masaracchia (Member, IEEE)</i>



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SECTION 1: INTELLIGENT SYSTEMS, CONTROL AND APPLICATIONS

Time		November 25, 2022 Location: B4.2 (Building B, Floor 4)	
		<i>Chair: Prof. Ho Pham Huy Anh, Assoc. Prof. Nguyen Tan Luy</i>	
14:00	14:15	ICATSD2F.103	ADAPTIVE NONSINGULAR TERMINAL SLIDING MODE CONTROL FOR MANIPULATOR ROBOT <i>Mai Thang Long, Tran Huu Toan, Tran Van Hung, Tran Ngoc Anh, Nguyen Hoang Hieu, Nguyen Thi Hong Ha</i>
14:15	14:30	ICATSD2F.104	BIOMECHANICS-BASED DEVELOPMENT OF AN UPPER LIMB REHABILITATION ROBOT <i>Huu-Toan Tran, Thang-Long Mai, Van-Hung Tran, Ngoc-Anh Tran, Thanh-Hai Tran, Hoang-Hieu Nguyen</i>
14:30	14:45	ICATSD2F.105	DEVELOPMENT OF A POSITIONING SYSTEM FOR MOBILE ROBOTS USING LIDAR SENSOR IN UNDETERMINED ENVIRONMENTS <i>Nguyen Van Lanh</i>
14:45	15:00	ICATSD2F.107	TELEOPERATION OF A CAR-LIKE MOBILE ROBOT WITH HAPTIC JOYSTICK USING POTENTIAL FIELD BASED FORCE FEEDBACK <i>Anh Khoa Tran, Hung Hoang, Duc Thien Tran</i>
15:00	15:15	ICATSD2F.108	ADAPTIVE SLIDING MODE CONTROL FOR THE 6 DOF MANIPULATOR WITH TIME-VARYING PAYLOAD <i>Ha Thanh Binh, Tong Hai Ninh, Tran Minh Phuc, Tran Duc Thien, Le Hoang Lam</i>
15:15	15:30	ICATSD2F.112	OPTIMAL TRACKING CONTROL FOR ROBOT MANIPULATORS WITH INPUT CONSTRAINT BASED REINFORCEMENT LEARNING <i>Nguyen Duc Dien, Nguyen Tan Luy, Lai Khac Lai, Tran Thanh Hai</i>
15:30	15:45	ICATSD2F.117	A NEW CABLE DRIVE SOLUTION FOR TORQUE CONTROL OF EXOSKELETON'S MOTORIZED JOINTS <i>Tan Hung Huynh, Minh Thong Nguyen, Hau Tran Van, Viet Anh Dung Cai, Viet Thang Nguyen, Long Triet Giang Huynh</i>
15:45	16:00	ICATSD2F.124	AN IMPROVEMENT DESIGN OF MULTI-FUNCTION CONTROLLER FOR HIGH-TECH SHRIMP FARM <i>Bui Thu Cao</i>

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SECTION 2: CYBER-PHYSICAL SYSTEMS, NETWORKS AND APPLICATIONS

<i>Time</i>		<i>November 25, 2022 Location: B4.3 (Building B, Floor 4)</i>	
		<i>Chair: Dr. Mai Thang Long, Dr. Nguyen Ngoc Son</i>	
14:00	14:15	ICATSD2F.106	A STUDY ON DIRECT AND SIMULTANEOUS ANALYSIS OF ^{238}U AND ^{226}Ra NUCLIDES <i>Vo Xuan An</i>
14:15	14:30	ICATSD2F.111	PERFORMANCE ANALYSIS OF TWO-WAY NETWORK WITH NONLINEAR ENERGY HARVESTING RELAY AND DIGITAL NETWORK CODING <i>Thu- Thuy Thi Dao, Pham Ngoc Son</i>
14:30	14:45	ICATSD2F.114	A NEW APPROACH IN CALCULATING CURRENT-VOLTAGE CHARACTERISTICS OF THE QUANTUM DOT GATE FIELD EFFECT TRANSISTOR <i>An Nguyen Van</i>
14:45	15:00	ICATSD2F.118	PERFORMANCE ANALYSIS 16QAM-OFDM SIGNAL EMPLOYING DVB-T2 STANDARD IN 8K MODE <i>Nguyen Hoang Viet</i>
15:00	15:15	ICATSD2F.119	A NOVEL MULTILEVEL INVERTER USING SMALL CAPACITORS <i>Ngo Bac Bien, Phan Xuan Dung, Trinh Ngoc Duc, Ngo Thi Kim Linh</i>
15:15	15:30	ICATSD2F.122	COOPERATIVE NOMA-ENABLED CELLULAR INTERNET-OF-THINGS SYSTEMS: PERFORMANCE ANALYSIS <i>Tien-Tung Nguyen, Anh Vinh Nguyen, Hung Le Van, and Tan Loc Nguyen</i>

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SECTION 3: MACHINE VISION, MACHINE LEARNING AND APPLICATIONS

Time		November 25, 2022 Location: B4.4 (Building B, Floor 4)	
<i>Chair: Assoc. Prof. Huynh Trung Hieu</i>			
14:00	14:15	ICATSD2F.101	SEMANTIC VEHICLE SEGMENTATION FROM AERIAL IMAGES USING DEEP LEARNING <i>Van Luan Tran, Huei-Yung Lin, Manh-Hung Ha</i>
14:15	14:30	ICATSD2F.102	ESTIMATING LASER IRRADIATION COORDINATES FROM TEMPERATURE DISTRIBUTION USING CONVOLUTIONAL NEURAL NETWORK <i>Miki Nakaone, Tomomasa Ohkubo, Yuki Ueno, Ken Goto, Yutaka Kagawa</i>
14:30	14:45	ICATSD2F.109	FUSE DETECTION ON INDUSTRIAL PRODUCTION LINE WITH MACHINE LEARNING VISION <i>Thanh Hai Diep, Thanh Son Nguyen, Ngoc Hay Nguyen, Van Luan Tran</i>
14:45	15:00	ICATSD2F.115	ATTENTION MODELS FOR COVID-19 DETECTION BASED ON LUNG ULTRASOUND IMAGES <i>Hoa Thanh Le, Thao Danh Nguyen, Linh Nguyen</i>
15:00	15:15	ICATSD2F.116	HAND-WRITTEN CHARACTER RECOGNITION BY WRITING SOUND USING A ONE-DIMENSIONAL CONVOLUTIONAL NEURAL NETWORK <i>Iori Tajima, Hiroaki Kurokawa</i>
15:15	15:30	ICATSD2F.120	BUILDING A QUESTION ANSWERING MODEL TO SUPPORT STUDENTS USING DEEP LEARNING <i>Do Tan Hai, Dang Thi Phuc, Tran Cong Thinh, Nguyen Phuc Hung</i>



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SECTION 4: COMPUTATIONAL INTELLIGENCE AND APPLICATIONS

<i>Time</i>		<i>November 25, 2022 Location: B4.5 (Building B, Floor 4)</i>	
		<i>Chair: Prof. Narayan C. Debnath, Dr. Dang Thi Phuc</i>	
14:00	14:15	ICATSD2F.110	FRÉCHET MEANS IN SUB-RIEMANNIAN MANIFOLD <i>Thanh-Son Trinh</i>
14:15	14:30	ICATSD2F.113	ENRICHING KNOWLEDGE GRAPH OF COMPUTING DOMAIN ONTOLOGY BY HETEROGENEOUS RESOURCES <i>Ta Duy Cong Chien</i>
14:30	14:45	ICATSD2F.121	AN EFFICIENTLY METHOD DETERMINATION THE REACHABLE SET OF GEOSPATIAL DATA IN NETWORK SPACE <i>Trang T.D Nguyen, Loan T.T Nguyen, L.N.Duy</i>
14:45	15:00	ICATSD2F.123	PLANT CLASSIFICATION IN SOUTHEAST ASIA USING HIGH-RESOLUTION NETWORK <i>Dang Ngan Ha, Tran Hong Ngoc, Hieu Trung Huynh</i>

