Nov. 29, 2022

	Room A	Room B	Room C	Room D	Room E	Room F	Room G	Room H
Registration								
14:00-17:30								
					Registration			
nvited Talk 1					Invited Talk 1			
14:50-15:50					Place: Room A+B			
				ng Edge Technologies for On-D			reas	
			•	Speaker: Prof. Chinthaka Prem				
Break				Chair: Daisuk	e Fujita (University of Hyogo, Ja Break	apan)		
Invited Talk 2					Invited Talk 2			
16:00-17:00					Place: Room A+B			
10.00-17.00					riado. riadin 71 B			
			Title: Invitation for A	I/ML in Software as a Medical	Device: Fundamentals of Con	nputer-Aided Diagnosis for Mo	edical Images	
				oji Kobashi (Director, Advance				
					e Fujita (University of Hyogo, Ja			
Break								
17:00-18:00								
					Break			
Welcome Reception								
18:00-20:00								
					Welcome Reception			
					Place: Ise City Hotel			

Application Computation	Nov. 30, 2022											
100-9-00 Paggintation Pagginta		Room A	Room B	Room C	Room D	Room E	Room F	Room G	Room H			
Filtre Plant Growth Monitoring for Intelligent Environmental Control in Greenhouse Speaker: Prof. Kolaro Tavayam (Toyobaha Ignate and Technology, Japan and Ethine University, Japan) Title: Plant Growth Monitoring for Intelligent Environmental Control in Greenhouse Speaker: Prof. Kolaro Tavayam (Toyobaha Ignam) Title: Plant Growth Monitoring for Intelligent Environmental Control in Greenhouse Speaker: Prof. Kolaro Tavayam (Toyobaha Ignam) Torol 12-300 W-4.A SS-03 SS-03 SS-03 SS-03 SS-03 SS-04 SS-04 SS-03 SS-03 SS-03 SS-04 SS-04 SS-05 SS	Registration 1:00-9:40	Registration										
Title: Plant Crowth Monitoring for threatiligent Environmental Control in Greenhouse Speaker Prof. Kotaro Takeyaman (Toyothahi University of Agriculture and Technology, Japan and Bitme University, Japan) Chair: Shinji Febbuda (Tokyo University of Agriculture and Technology, Japan) Chair Shinji Febbuda (Tokyo University of Agriculture and Technology, Japan) Sepaker Prof. Kotaro Takeyaman (Toyothahi University of Agriculture and Technology, Japan) Chair Shinji Kabada (Tokyo University of Agriculture and Technology, Japan) Sepaker Prof. Kotaro Takeyaman (Toyothahi University of Agriculture and Technology, Japan) W4.5.4 S.5.0 Sepaker Prof. Kotaro Takeyaman (Toyothahi University of Agriculture and Technology, Japan) Sepaker Prof. Kotaro Takeyaman (Toyothahi University) Sepaker Prof. Kotaro Takeyam	9:40-9:50	Opening Ceremony										
Tritle: Plant Growth Monitoring for Intelligent Environmental Control in Greenhouse Speaker Prof. Actairo Takayama (Tryochashi University) of Agricultura and Technology, Japan and Ethine University, Japan) Break Security Chair Ship Flutuded (Tokyo University) of Agricultura and Technology, Japan and Ethine University, Japan) Break Security Mathematics and Applications of AlhoT for Social Safety 1 Security Mathematics and Applications of Protections Protections Protections of Prot	Plenary Talk 1				Plena	ary Talk 1						
Treated Season Service (Chair: Shing Fixtuda (Tokyo University) of Agriculture and Technology, Japan) W.1.4. SS-0.3 SS-0.3 SS-0.3 Evolutionary Computation, Swarm intelligence, and Their Applications 1 Chair: Michigal February (Chair: Michigal February) SS-0.3	9:50-10:50	Place: Main Hall Title: Plant Growth Monitoring for Intelligent Environmental Control in Greenhouse										
Second												
SS-03 Evolutionary Computation, Swarm Intelligence, and Their Applications of Alliof for Social Safety 1 Chair: Ket Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Michigue Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair: Jin Hey Social Safety 1 Chair: Chinshi (Kyushu Iribert) Chair Chinshi (Karail Iriber	Break 10:50-11:10	Break										
Swaff Intelligence, and There Applications of Allor for Swaff Real Productions (Chair: Michigan Applications of Allor for Swaff Real Productions (Chair: Michigan Applications) (Chair: Mi	Parallel Session	W-1-A	W-1-B	W-1-C	W-1-D	W-1-E	W-1-F	W-1-G				
Swarm intelligence, and Their Applications 1 Chair: Min Heavy on (Sejong University) W-2-A 3:50-15:30 W-2-B 3:50-15:30	11:10-12:30	SS-03	SS-02	SS-20	GS	GS	GS	GS				
Their Applications 1 (Chair: Michiyusi Hirokane (Kansai University) Threatilet Session 3:00-15:30 W-2-A 3:50-15:30 W-2-B SS-03 Syouth Computation, Swarm intelligence, and Their Applications 2 Chair: Sel Ohnishi (Kyushu University) Varietiet Session W-2-A SS-03 Swarm intelligence, and Their Applications 2 Chair: Sel Ohnishi (Kyushu University) Varietiet Session W-2-A SS-03 Swarm intelligence, and Their Applications 2 Chairs: Sel Ohnishi (Kyushu University) Varietiet Session W-2-B SS-03 SS-03 SS-03 Swarm intelligence, and Their Applications 1 (Ritsumeikan University) Varietiet Session W-2-B SS-03 SS-03 SS-03 SS-03 SS-03 Swarm intelligence, and Their Applications 1 (Ritsumeikan University) Varietiet Session SS-03 SS-		Evolutionary Computation,	Application of Al/IoT for	Fuzzy Mathematics and	Natural Language	Decision Making	Agriculture	Reinforcement Learning				
Chair Kai Ohnlahi (Kyushu Institute of Technology) University) University) University) University) Lunch Break SS-03 SS-03 SS-03 SS-04 SS-04 SS-04 Application of Ali/Of for Social Safety 2 Chair: Yasudoshi Normura (Rissmeham University) Technology) Technology SS-13 SS-07 Advanced Data Mining Applications 2 Chair: Sus-seaning Techniques and Applications 1 Technology of Intelligent Systems for Signal Processing and Department of Chair: Sus-seaning Molecular Chair: Issue-seaning Molecular		Swarm intelligence, and	Social Safety 1	Applications to Predictions	Processing 1	Chair: Tomohiro Hayashida	Chair: Shinji Fukuda (Tokyo	Jung-Sook Kim (Kimpo				
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Lunch Break M-2.4 SS-03		Chair: Kei Ohnishi (Kyushu	(Kansai University)	University)	(Ochanomizu University)		Technology)					
Lunch Break Parallel Session S-0.16:30 Parallel Session	Lunch Break		1		<u> </u>	I.	1	1				
Parallel Session SS-03 SS-03 Evolutionary Computation, Swarm intelligence, and Their Applications 2 Chair: Ket Ohnishi (Kyushu Institute of Technology), Tornohiro Yoshikawa (Suzuka University of Medical Science) Deep Learning Techniques for Image Processing and Its Applications 1 Chair: Churi-Hao Chen Premachandra (Shibaura Institute of Technology), Tornohiro Yoshikawa (Suzuka University of Medical Science) W-2-B SS-02 Application of Alifor for Social Safety 2 Chair: Yastuchshi Nomura (Ritsumeikan University) Applications 1 Chair: Churi-Hao Chen Chair: Suk-seugh Hwang (Chair: Suk-seugh Hwang) (Chair: Mark Holpina) (Coska Metropolitian University) Dae-Young Im (KITECH) University) W-3-B SS-03 Evolutionary Computation, Samm intelligence, and Their Applications 2 Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) W-3-B SS-07 Social Safety 3 Chair: Mark Holpina (Ritsumeikan University) Deep Learning Techniques Techniques and Its Applications 1 Chair: Churi-Hao Chen (Premachandra (Shibaura Institute of Technology) University of Technology) W-3-E SS-19 Convergence Technology of Signal Processing and Bioheath (Chair: Suk-seugh Hwang) (Chair:	12:30-13:50											
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Chairs: Kei Ohnishi (Kyushu Institute of Technology), Tomohiro Yoshikawa (Suzuka University) of Medical Science) Coffee Break 5:30-16:00 Coffee Break Coffee Break Coffee Break Coffee Break Coffee Break Chair: Chun-Hao Chen (National Kaohsiung University) Coffee Break Coffee Break Cof		Swarm intelligence, and	Social Safety 2	for Image Processing and	Techniques and	Signal Processing and	Smart Agriculture	Chair: Isao Hayashi (Kansai				
Institute of Technology), Tomohiro Yoshikawa (Suzuka University of Medical Science) Premachandra (Shibaura Institute of Technology), Akiyoshi Hizukuri (Ritsumeikan University) Coffee Break 5:30-16:00 Coffee Break Parallel Session 6:00-18:00 SS-03 SS-03 Sevolutionary Computation, Swarm intelligence, and Their Applications 3 Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) W-3-A SS-03 Sevolutionary Computation, Swarm intelligence, and Their Applications 3 Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) N-3-B SS-02 SS-13 SS-07 GS SS-07 GS		Their Applications 2	Chair: Yasutoshi Nomura	its Applications 1	Applications 1	Biohealth	Chairs: Young-Jae Ryoo	University), Yusuke Nojima				
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Parallel Session Sarallel Session Sarall	15:30-16:00	Coffee Break										
SS-03 Evolutionary Computation, Swarm intelligence, and Their Applications 3 Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) SS-02 Application of Al/IoT for Social Safety 3 Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) SS-03 Advanced Data Mining Techniques and Applications 2 Chair: Chun-Hao Chen (National Kaohsiung University of Science and Institute of Technology) Akiyoshi Hizukuri SS-07 Advanced Data Mining Techniques and Applications 2 Chair: Chun-Hao Chen (National Kaohsiung University of Science and Technology) University of Science and Technology) Akiyoshi Hizukuri SS-07 Advanced Data Mining Techniques and Applications 2 Chair: Chun-Hao Chen (National Kaohsiung University of Science and Technology) University of Science and Technology) Technology) SS-03 SS-05 Advanced Data Mining Techniques and Advanced Data Mining Techniques and (University of Technology) University of Technology) Technology) SS-07 Advanced Data Mining Techniques and (University of Technology) University of Technology) Technology) SS-08 SS-09 Advanced Data Mining Techniques and Advanced Data Mining Techniques and (University of Technology) University of Technology) Technology)												
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Swarm intelligence, and Their Applications 3 Chair: Technology) Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) Social Safety 3 Chair: Kei Kawamura (Yamaguchi University) Chair: Chair: Chun-Hao Chen (National Kaohsiung University) (National Kaohsiung University) Akiyoshi Hizukuri Technology) Chair: Jinseok Woo (Tokyo University of Technology) (University of Technology) University of Technology) Chair: Syoji Kobashi (University of Hyogo) (Chair: Syoji Kobashi (University of Hyogo) (Patric Jinseok Woo (Tokyo University of Technology) University of Technology) University of Technology)	16:00-18:00	SS-03	SS-02	SS-13	SS-07	GS	GS	GS				
Swarm intelligence, and Their Applications 3 Chair: Rei Kawamura (Suzuka University of Medical Science) Social Safety 3 for Image Processing and Techniques and Applications 2 Chair: Jinseok Woo (Tokyo University of Technology) Chair: Jinseok Woo (Tokyo University of Technology) Chair: Jinseok Woo (Tokyo University of Technology) Chair: Syoji Kobashi (University of Hyogo) Chair: Syoji Kobashi (University of Fechnology) Chair: Syoji Kobashi (University of Hyogo) Chair: Syoji Kobashi (University of Hyogo) Chair: Syoji Kobashi (University of Fechnology) Chair: Syoji Kobashi (University of Hyogo) Chair: Syoji Kobashi (University of Fechnology) Chair: Chair: Syoji Kobashi (University of Fechnology) Chair: Syoji Kobashi (University of Fechnology) Chair: Syoji Kobashi (University of Fechnology) Chair: Chair: Syoji Kobashi (University of Fechnology) Chair: Syoji		Evolutionary Computation,	Application of Al/IoT for	Deep Learning Techniques	Advanced Data Mining	Robotics	Vision and Sensors	Human-Computer				
Their Applications 3 Chair: Kei Kawamura (Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) Chair: Kei Kawamura (Yamaguchi University) Chair: Kei Kawamura (Yamaguchi University) (Yamaguchi University) Chair: Hiroshi Takenouchi (Chair: Chun-Hao Chen (National Kaoshiung University of Fechnology) University of Fechnology) (University of Hyogo) Chair: Hiroshi Takenouchi (Fukuoka Institute of Technology)				for Image Processing and	Techniques and	Chair: Jinseok Woo (Tokvo	Chair: Syoji Kobashi	Interaction				
Chair: Tomohiro Yoshikawa (Suzuka University of Medical Science) (Suzuka University of Medical Science) (Yamaguchi University) Chairs: Chinthaka Chair: Chun-Hao Chen ((National Kaohsiung University of Science and Akiyoshi Hizukuri Technology) (National Kaohsiung University of Science and Akiyoshi Hizukuri Technology)												
(Suzuka University of Medical Science) Premachandra (Shibaura Institute of Technology), Akiyoshi Hizukuri Premachandra (Shibaura (National Kaohsiung University of Science and Akiyoshi Hizukuri Technology) Technology)						,	,, -9-/					
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Dec. 1, 2022	IDaam A	Deem D	Incom C	Deam D	IDeem F	Daam F	Deem C	Deem II			
Registration	Room A	Room B	Room C	Room D	Room E	Room F	Room G	Room H			
9:00-9:30	Registration										
Plenary Talk 2					ry Talk 2 Main Hall						
9:30-10:30				Place:	Main Haii						
			Title: Realizing	Speaker: Prof. Kelly Cohen	ence - Perceived Gaps & Prom (University of Cincinnati, USA)					
Break	Chair: Yusuke Nojima (Osaka Metropolitan University, Japan) Break										
10:30-10:50 Parallel Session	T-1-A	T-1-B	T-1-C	T-1-D	T-1-E	T-1-F	T-1-G				
10:50-12:30	SS-15	GS	GS	SS-01	GS	SS-22	SS-18				
	Recent Trends of Clusterin		Natural Language	Human Symbiotic Systems		Intelligent System Design	Neurotechnology Advances				
	Methodologies	Classification	Processing 2	Chair: Tsuyoshi Nakamura	Chair: Young-Cheol Bae	Using Artificial Intelligence 1					
	Chair: Yukihiro Hamasuna	Chair: Shinya Watanabe	Chair: Fumiaki Saitoh (Chiba	(Chubu University)	(Chonnam National University	, Chair: Myung-Geun Chun	Applications for Dementia				
	(Kindai University)	(Muroran Institute of Technology)	Institute of Technology)		Korea)	(Chungbuk National University)	Neuro-biomarker				
		reciliology)				Offiversity)	Development, Cognitive Load Elucidation, and Brain				
							computer Interfaces 1				
							Chair: Tomasz M. Rutkowski				
Lunch Break											
12:30-13:50											
				Lunc	h Break						
Parallel Session					T-2-E	T-2-F	T-2-G	T-2-H			
13:50-15:30					SS-16	SS-22	SS-18	SS-01			
					Intelligent Transportation	Intelligent System Design	Neurotechnology Advances				
					Systems	Using Artificial Intelligence 2		Chair: Tomohiro Yoshikawa			
					Ho Namgung (Mokpo National		Applications for Dementia	(Suzuka University of Medical			
					Maritime University)	(Hankyong National University)	Neuro-biomarker	Science)			
						Offiversity)	Development, Cognitive Load Elucidation, and Brain				
							computer Interfaces 2				
							Chair: Tomasz Komendzinski				
Coffee Break											
15:30-16:00				Coffe	e Break						
Parallel Session					T-3-E	T-3-F	T-3-G	T-3-H			
16:00-17:40					SS-08	GS	GS	SS-01			
					Rough Sets, Granular	Simulation and Data Mining	Neural Networks	Human Symbiotic Systems			
					Computing and Their	for Covid-19	Chair: Keiichi Horio (Kyushu	Chair: Masayoshi Kanoh			
					Applications	Chair: Takeshi Uchitane (Aichi	Instiutte of Technology)	(Chukyo University)			
					Chair: Masahiro Inuiguchi (Osaka University)	Institute of Technology)					
					(Osaka University)						
Break				R	reak						
17:40-18:00											
Banquet & Award Ceremony											
18:00-20:30											
	Place: Room A+B+C+D										
	Banquet & Award Ceremony										

Dec. 2, 2022

Dec. 2, 2022	ID A	In p	In 0	D D	D	In F	D 0	In II			
	Room A	Room B	Room C	Room D	Room E	Room F	Room G	Room H			
Registration 9:00-9:30		Registration									
Plenary Talk 3					ry Talk 3						
9:30-10:30				Place:	Main Hall						
			7	Speaker: Prof. Euntai Kin	ocessing for Autonomous Drivers (Yonsei University, Korea) (Kimpo University, Korea)	ring					
Break 10:30-10:50				В	reak						
Parallel Session	F-1-A	F-1-B	F-1-C	F-1-D	F-1-E	F-1-F	F-1-G				
10:50-12:30	SS-12	SS-04	SS-05	SS-11	GS	GS	GS				
12.00	Well-being and Kansei Engineering 1 Chair: Hiroko Shoji (Chuo University)	Artificial Intelligence for Medical/Healthcare Systems 1 Chair: Daisuke Fujita (University of Hyogo)	Continual Learning and Emergence of Intelligent Systems 1 Chair: Naoki Masuyama (Osaka Metropolitan University)	Soft Computing in Urban and Transport Planning 1 Chair: Masashi Okushima (Tokushima University)	Education and Training Chair: Masaaki Ida (National Institution for Academic Degrees and Quality Enhancement of Higher Education)	Artificial Intelligence/Machine Learning Chair: Kazushi Okamoto (The University of Electro- Communications)	Multi-agent Systems Chair: Hidehisa Akiyama (Okayama University of Science)				
Lunch Break 12:30-13:50		Lunch Break									
Parallel Session	504	le o p	In a c	Tr.o.p.	Tr.o.e	le o e					
Parailei Session 13:50-15:30	F-2-A SS-12 Well-being and Kansei Engineering 2 Chair: Yuri Hamada (Aoyama Gakuin University)	SS-04 Artificial Intelligence for Medical/Healthcare Systems	F-2-C SS-05 Continual Learning and Emergence of Intelligent Systems 2 Chair: Yuichiro Toda (Okayama University)	F-2-D SS-11 Soft Computing in Urban and Transport Planning 2 Chair: Hiroaki Inokuchi (Kansai University)	F-2-E GS Natural Language Processing 3 Chair: Toru Sugimoto (Shibaura Institute of Technology)	F-2-F GS Evolutionary Computaiton Chair: Tomohiro Harada (Tokyo Metropolitan University)					
Break		Break									
15:30-15:50											
Award & Closing 15:50-16:10	Award & Closing Ceremony Place: Room A										