

Program

The 11th Rajamangala University of Technology International Conference
 “RMUT Driving toward Innovation, Economy and Green Technology for Sustainable Development”

May 18-20, 2022

Pattaya, Thailand

International Presentation Programs

Date	Times		Room				
			Sapphire A	Sapphire B	Royal Opal Theatre	Jomtien 1	Foyer
18-May-22	Afternoon	13.00 - 18.00	S3 iMSH	S5 iTCC	S7 iCOM		Posters
19-May-22	Morning	09.00 - 12.00	S6 iVI	S4 iNAM	S2 iTIE		
	Afternoon	13.00 - 18.00	S6 iVI	S4 iNAM	S2 iTIE		
20-May-22	Morning	09.00 - 12.00	S8 iFIS	S1 iDTBI	S8 iFIS	S1 iDTBI	

No.	Session	Paper			Invite		
		Oral	Poster	Total	Online	Onsite	Total
S1 iDTBI	Digital Technology & Business Innovation	6	2	8	1	3	4
S2 iTIE	Technology and Innovation for Engineering	14	7	21	5	0	5
S3 iMSH	Medical Science and Herb	2	8	10	2	0	2
S4 iNAM	Nanotechnology and Applied Materials	10	20	30	3	1	4
S5 iTCC	Tourism Cultural and Creative technology	11	0	11	0	1	1
S6 iVI	Visual Information Processing and Color Vision	15	0	15	3	0	3
S7 iCOM	Composite Materials and Technologies	7	7	14	0	4	4
S8 iFIS	Food Innovation and Smart Farm	8	12	20	4	2	6
Total		73	56	129	18	11	29

Updated May 9, 2022

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May 20, 2022

Room: Sapphire B

Session: Digital Technology & Business Innovation

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Room: Sapphire B						
09.00-09.30	IV-iDTBI-001	Onsite		"Digital Technology and AI-Enabled Education Transformation"	Assoc. Prof. Dr. Chutiporn Anutariya	Asian Institute of Technology , AIT
09.30-10.00	IV-iDTBI-002	Online		Geospatial Data and Technologies – RECENT Advances and Applications	Dr. Manzul Hazarika	Asian Institute of Technology , AIT
10.00-10.20	iDTBI-001	Onsite	10302	An Improved Classroom Effectiveness of Learning Management in Higher Education Using Active Learning Techniques with Case Study of Students Based on Mathematics and Computer Science Background	Uraiwan Inyaem	Rajamangala University of Technology Thanyaburi
10.20-10.30	Break Time 10 minute					
10.30-10.50	iDTBI-002	Onsite	10507	Detection of Nutrients in Fertilizer with Image Processing based Chemical Reaction	Pichate Kunakornvong	Rajamangala University of Technology Thanyaburi
10.50-11.10	iDTBI-003	Online	10529	Air Dust Level Detection Real-Time Online Monitoring	Prasert Nonthakarn	Rajamangala University of Technology Srivijaya
11.10-11.30	iDTBI-004	Onsite	10750	The Impact of Mobile Applications on Improving an Organizational Personnel Performance	Benjaporn Meeprom	Rajamangala University of Technology Thanyaburi
Poster Presentation Room: Foyer						
18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iDTBI-P001	Onsite	10334	The Configuration of 3D Model Suitable for Creating World Scale Augmented Reality (AR)	Teerasan Lailang	Rajamangala University of Technology Thanyaburi
	iDTBI-P002	Onsite	10337	The Design of English Flash Cards with Augmented Reality Technology about Food & Drink	Bennapa Pattanapipat	Rajamangala University of Technology Thanyaburi

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Room: Jomtien 1

Session: Digital Technology & Business Innovation

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Room: Jomtien 1						
09.00-09.30	IV-IDTBI-003	Onsite		"Role of Innovation to drive business performance and improve industry standard. Success case: Innovation for tropical Small and medium Dairy farms"	Dr. David Makarapong	Chief Innovation Officer Senovate AI co.,Ltd.
09.30-10.00	IV-IDTBI-004	Onsite		"Digital Technology in Detecting Poor Software Design Decision"	Prof. Dr. Marcello M. Bonsangue	Leiden Institute of Advanced Computer Science, Leiden University, The Netherlands
10.00-10.20	iDTBI-008	Online	10742	An Empirical Study of the Cross-Cultural Consumer Experience of A Pharmaceutical Shop During the Pandemic in the Retailing Setting	Gumporn Supasettaysa	Rajamangala University of Technology Phra Nakhon
10.20-10.30	Break Time 10 minute					
10.30-10.50	iDTBI-007	Onsite	10376	The Impact of COVID-19 on the Stock Exchange of Thailand: Evidence from an Autoregressive Distributed Lag Bound Testing Approach	Wisuwat Chujan	Bangkok University

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May 19, 2022

Room: Royal Opal Theatre

Session: Technology and Innovation for Engineering

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation						
Room: Royal Opal Theatre						
09.00-09.30	IV-ITIE-001	Online		“Sustainable treatment of industrial wastewaters”	Prof. Dr. Ian Thompson	University of Oxford
09.30-10.00	IV-ITIE-002	Online		3D/4D Printing of Food, Gels, and Soft Materials for Sustainable Development	Prof. Dr. Hidemitsu Furukawa	Yamagata University, Japan
10.00-10.30	IV-ITIE-003	Online		Nanostructured Materials and Composites for Energy Storage Applications	Prof. Dr. Santi Maensiri	Suranaree University of Technology, Thailand
10.30-10.40	Break Time 10 minute					
10.40-11.00	iTIE-001	Onsite	10393	Performance of a Direct-fired Porous Boiler Energized by LPG-Oxygen Premixed Combustion	Panuwat Pawakote	Rajamangala University of Technology Thanyaburi
11.00-11.20	iTIE-002	Onsite	10399	Effect of Fluid Velocity in Piping System Physical Properties for Shrimp Harvesting	Songphon Thoetrattanakiat	Rajamangala University of Technology Thanyaburi
11.20-11.40	iTIE-004	Onsite	10432	Mathematical Study on the Ice Production Using a Vapor Compression Cycle Energized by Solar-Biomass Hybrid Energy	Karn Nakaravarayut	Rajamangala University of Technology Thanyaburi
11.40-12.00	iTIE-005	Onsite	10511	A Comparative Study on Criteria for Sustainable Supplier Selection	Surasak Choobthaisong	Rajamangala University of Technology Thanyaburi
12.00-13.00	Lunch Time					
13.00-13.30	IV-ITIE-004	Online		Transparent Conducting Oxides and Their Applications in Modern Display Devices	Prof. Dr. Hee Young Lee	Yeungnam University, Republic of Korea
13.30-14.00	IV-ITIE-005	Online		Discovery of Nanomatrix Structure of Natural Rubber and Its Application	Prof. Dr. Seiichi Kawahara	Nagaoka University of Technology, Japan
14.00-14.20	iTIE-006	Onsite	10524	An Anti-Bird Technique using 21-23 KHz-Pulse Noises	Pakornkiat Sawetmethikul	Rajamangala University of Technology Thanyaburi
14.20-14.40	iTIE-007	Onsite	10583	Dielectric Constant Testing using Frequency Variation Technique	Pakornkiat Sawetmethikul	Rajamangala University of Technology Thanyaburi
14.40-15.00	iTIE-008	Onsite	10584	The Site Survey and Study of 8 kw Hybrid Wind Solar PV Air-Compress System for Water Treatment Process (Case Study at CPF Saraburi Province)	Sirisak Pangvuthivanich	Rajamangala University of Technology Thanyaburi
15.00-15.20	iTIE-009	Online	10643	An Assessment of Environmental Impact of Gas Flaring in Thailand: A Case Studies of Petrochemical Industry	Parnuwat Usapein	Rajamangala University of Technology Rattanakosin
15.20-15.30	Break Time 10 minute					
15.30-15.50	iTIE-010	Onsite	10656	The Analysis and Comparisons of 200 kW PV Rooftop Between Energy to Grid with Energy Storage at Wongsakorn Green Market in Thailand	Suthep Simala	Rajamangala University of Technology Thanyaburi
15.50-16.10	iTIE-011	Onsite	10715	Development of Semi-Automatic Model Extruder with Multi Level Control for Butter Pressing	Kodchasorn Hussaro	Rajamangala University of Technology Rattanakosin
16.10-16.30	iTIE-012	Onsite	10754	Effective Learning on an Industrial Engineering Drawing to practical approach	SOMPORN VONGPEANG	Rajamangala University of Technology Thanyaburi
16.30-16.50	iTIE-013	Onsite	10806	The Simulation of Water Quality Monitoring System for Shrimp Farming Pond	Weena Janratchakool	Rajamangala University of Technology Thanyaburi
16.50-17.10	iTIE-014	Onsite	10807	Real Time Security System with Face Recognition	Weena Janratchakool	Rajamangala University of Technology Thanyaburi
17.10-17.30	iTIE-015	Onsite	10842	Railway Area Detection Using Deep Segmentation Networks	Saifun Khruetakhrui	Rajamangala University of Technology Thanyaburi
Poster Presentation						
Room: Foyer						
18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iTIE-P001	Onsite	10301	Drying Kinetics Models of Mini Heat Pump Dryer for Slice Bananas	Phairoach Chunkaew	Rajamangala University of Technology Lanna
	iTIE-P002	Onsite	10390	Investigation on the Energy Storage Management of a Solar-Biomass Hybrid Power System for Isolated Small Community	Oluwaseun Olanrewaju Akinte	Rajamangala University of Technology Thanyaburi
	iTIE-P003	Onsite	10391	Energy Storage Management of a PV-Biomass Hybrid Power System	Oluwaseun Olanrewaju Akinte	Rajamangala University of Technology Thanyaburi
	iTIE-P004	Onsite	10680	Hall Effect Sensor Using Micro Strip Add-drop Filter	Chatchawal Sripakdee	Rajamangala University of Technology Phra Nakhon
	iTIE-P005	Onsite	10733	The Site Survey and Study of 40 kw Hybrid Wind Turbine & Solar PV (Case Study at Tak Province)	Nima Azhari	Rajamangala University of Technology Thanyaburi
	iTIE-P006	Onsite	10740	Design and Development of Posture Correction Shirt with Tensile Force Analysis	Nareerut Jariyapunya	Rajamangala University of Technology Thanyaburi
	iTIE-P007	Onsite	10847	Activated Carbon Production from Carbon Wastes Discarded from Thermochemical Processes	Chaiyan Chaiya	Rajamangala University of Technology Thanyaburi

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Room: Sapphire A

Session: Medical Science and Herb

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Room: Sapphire A						
13.00-13.30	IV-iMSH-001	Online		“New Technologies in Healthcare”: Concept, Experience, Innovation Potentials and Development	Assoc. Prof. Dr. Jinpicha Mamom	Thammasat University, Thailand
13.30-14.00	IV-iMSH-002	Online		Robotic Haptic Sensing and Interaction for Surgery	Prof. Dr. Hongbin Liu	Institute of Automation (CASIA), Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences, China
14.00-14.20	iMSH-001	Onsite	10406	Evaluation of in Vitro Antioxidant and Antityrosinase Activities of Mimosa elengi L. Flower Extracts	Jindaporn Khongdetch	Rajamangala University of Technology Suvarnabhumi
14.20-14.40	iMSH-002	Online	10708	Use of Herbs and Traditional Medicine Among Asian Youths in the Digital Age: Cosmetics, Beauty and Anti-Aging	Lavanchawee Sujarittanonta	Rajamangala University of Technology Phra Nakhon
Poster Presentation Room: Foyer						
18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iMSH-P001	Onsite	10263	Characteristics of Natural Fermented Maieng Extracts Used as An Important Antioxidant in Cosmetics	Duongruitai Nicomrat	Rajamangala University of Technology Phra Nakhon
	iMSH-P002	Onsite	10326	Anti-Aging Activity of Tagetes patula L. Extracts Entrapped in Niosomes	Korawinwich Boonpisuttinant	Rajamangala University of Technology Thanyaburi
	iMSH-P003	Onsite	10327	Collagen Biosynthesis Stimulation and Anti-Melanogenesis Activities of Ludisia discolor Extracts Entrapped in Niosomes	Korawinwich Boonpisuttinant	Rajamangala University of Technology Thanyaburi
	iMSH-P004	Onsite	10328	Effect of Riceberry (Oryza Sativa L.) Extracts on 5α-Reductase mRNA Inhibition and Stimulation of Dermal Papilla Cells	Korawinwich Boonpisuttinant	Rajamangala University of Technology Thanyaburi
	iMSH-P005	Onsite	10329	Whitening and Anti-Aging Effects of Aqueous Extract from Phyllanthus emblica L. Seed	Korawinwich Boonpisuttinant	Rajamangala University of Technology Thanyaburi
	iMSH-P006	Onsite	10480	Development of Foundation Cream Containing Curcuma Longa Extract	Suradwadee Thungmungmee	Rajamangala University of Technology Thanyaburi
	iMSH-P007	Onsite	10597	Comparison the Inhibitory Effect of Vernonia Amygdalina Leaf Extracts on Scavenging Free Radical, Tyrosinase, and Amylase Activities	Supawadee Patathananone	Rajamangala University of Technology Thanyaburi
	iMSH-P008	Onsite	10851	Total Phenolic Content, Antioxidant and Anticancer Activity of Calophyllum inophyllum	Luksamee Vittaya	Rajamangala University of Technology Srivijaya

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Room: Sapphire B

Session: Nanotechnology and Applied Materials

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Room: Sapphire B						
09.00-09.30	IV-INAM-001	Online		Agricultural and Environmental Applications of Plasma Discharges over Water Surface Generated by Pulsed Power Generator	Assoc. Prof. Dr. Takahashi Katsuyuki	Iwate University, Japan
09.30-10.00	IV-INAM-002	Online		Bioproduction of Renewable Feedstocks from Biomass using Engineered Microbes	Prof. Dr. Yuji Aso	Kyoto Institute of Technology, Japan
10.00-10.20	iNAM-001	Onsite	10801	Preparation of Nanoparticles/PLLA Nonwoven through Melt-Blown Process	Nanjaporn Roungpaisan	Rajamangala University of Technology Thanyaburi
10.20-10.30	Break Time 10 minute					
10.30-10.50	iNAM-002	Onsite	10460	Development of Rotational Molding Products from PP Packaging Waste	Narongchai o-charoen	Rajamangala University of Technology Thanyaburi
10.50-11.10	iNAM-003	Onsite	10563	Development of a Paper-Based for Detection of Carbofuran Based on using Copper Nanoparticles	Siriwan Teepoo	Rajamangala University of Technology Thanyaburi
11.10-11.30	iNAM-004	Onsite	10638	Electrospun Cellulose Acetate/Maleic Acid Functionalized Gold Nanoparticles as Pb(II) Ions Colorimeter Sensor Strip	Pimolpun Niamlang	Rajamangala University of Technology Rattanakosin
11.30-11.50	iNAM-005	Onsite	10654	Effects of Modified Palm Oil and Surface Treatment on The Properties and Biodegradability of The Thermoplastic Starch	Piyawan polpanich	Rajamangala University of Technology Thanyaburi
12.00-13.00	Lunch Time					
13.00-13.30	IV-INAM-003	Online		Fine Bubble Technology and It's Applications	Prof. Dr. Kiyoshi Yoshikawa	Kyoto University, Japan
13.30-14.00	IV-INAM-004	Onsite		Optically Functional Nanomaterials Synthesized by One-Step Sonochemical Process for Optical Energy Harvesting Applications	Assoc. Prof. Dr. Wisanu Pecharapa	King Mongkut's Institute of Technology Ladkrabang, Thailand
14.00-14.20	iNAM-006	Onsite	10668	Sound Insolation of Sustainable Sound Absorber Material from Natural Rubber/Natural Fiber	Nuorn Choothong	Rajamangala University of Technology Rattanakosin
14.20-14.40	iNAM-007	Onsite	10691	Helical High-Density Polyethylene Lawn Mower	Kawita Chattrakul	Rajamangala University of Technology Thanyaburi
14.40-15.00	iNAM-008	Onsite	10732	Estimating Properties of Keratin Fibres through Multi-analytical Techniques	Therakanya Sripho	Rajamangala University of Technology Thanyaburi
15.00-15.10	Break Time 10 minute					
15.10-15.30	iNAM-009	Onsite	10797	A Novel Synergist Flame Retardant: Nano Rutile Mineral Enhances Intumescent Coating for Structural Buildings	Sorapong Pavasupree	Rajamangala University of Technology Thanyaburi
15.30-15.50	iNAM-010	Onsite	10438	Effects of Temperature and Reaction Duration on the Synthesis of Activated Carbon from Water Hyacinth via Hydrothermal Method	Varistha Chobpattana	Rajamangala University of Technology Thanyaburi
Poster Presentation Room: Foyer						
18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iNAM-P001	Onsite	10490	Green Synthesis of Carbon Dots from Nephelium Lappaceum Peels for Fluorescent Bioimaging Applications	Poomirat Nawarat	Rajamangala University of Technology Phra Nakhon
	iNAM-P002	Onsite	10564	Development of Immunochromatographic Strip Test using Gold nanoparticle for Detection of Malachite Green Residual in Aquatic Animals	Siriwan Teepoo	Rajamangala University of Technology Thanyaburi
	iNAM-P003	Onsite	10566	Preparation of Thermochromic Bioplastic Composite Wires for 3D Printing Process	Anchan Khankhuean	Kasetsart University
	iNAM-P004	Onsite	10576	Development of Photoelectrocatalytic Techniques for Dye Degradation and Simultaneous Electricity Generation	Chatchai Ponchio	Rajamangala University of Technology Thanyaburi
	iNAM-P005	Onsite	10578	Novel Organic Additives with Fluorescence and Antibacterial Properties from Benzoxazine Monomers Grafted Poly(acrylic acid)	Ratthapit Wuttisarn	Kasetsart University
	iNAM-P006	Onsite	10580	Nano-Silver Coated Ground Tea Leaves as a Hybrid Antimicrobial Additive for Poly(lactic acid) Composite Fibers and Textiles	Benjarut Ketruam	Kasetsart University
	iNAM-P007	Onsite	10586	Design and Development of Needleless Electrospinning System	Nithinart Chitpong	Rajamangala University of Technology Thanyaburi

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Room: Sapphire B

Session: Nanotechnology and Applied Materials

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iNAM-P008	Onsite	10629	Preparation of Hydrogel from Nano-Silver Coated Poly(vinyl alcohol) and Silk Fibroin by Gamma Irradiation for Wound Dressing Application	Chorpaka Inthong	Rajamangala University of Technology Thanyaburi
	iNAM-P009	Onsite	10641	Sound Absorbing Polypropylene Nonwoven by Melt Jet Spinning Process	Suchaline Mathurosemontri	Rajamangala University of Technology Thanyaburi
	iNAM-P010	Onsite	10650	Preparation of Flat Sheet Polysulfone Membrane Coated with PDMS for Carbon Dioxide/Methane Gas Separation at Low Pressure	Arisa Jaiyu	Thailand Institute of Scientific and Technological Research
	iNAM-P011	Onsite	10682	Preparation of Protect Foam by Biodegradable Plastic	Suchaline Mathurosemontri	Rajamangala University of Technology Thanyaburi
	iNAM-P012	Onsite	10694	Mask Filter Anti-bacteria from Poly(Butylene Succinate) by Melt Jet Spinning Process	Nichanan Phansroy	Rajamangala University of Technology Thanyaburi
	iNAM-P013	Onsite	10748	Effect of Modified Palm Oil on The Thermoplastic Starch/Corn Cob Powder/Bagasse Fiber Composite	Waroonsiri Jakarbutr	Rajamangala University of Technology Thanyaburi
	iNAM-P014	Onsite	10753	Preparation and Characterization of Typha Natural Fiber Reinforced Poly(lactic acid) Biocomposite	Rattikarn Khankrua	Rajamangala University of Technology Rattanakosin
	iNAM-P015	Onsite	10758	Anaerobic Treated Wastewater Sludge: A Possibility to Use as Biochemical Fuel	Bawornkit Nekhamanurak	Rajamangala University of Technology Rattanakosin
	iNAM-P016	Onsite	10785	Natural Rubber Latex Pre-vulcanization by Microwave Irradiation	Chuntip Sakulkaemaruehai	Rajamangala University of Technology Thanyaburi
	iNAM-P017	Onsite	10814	Extraction Nanocrystals Cellulose and Amorphous Cellulose from the Thailand Local Bamboo	Pruttipong Pantamanatsopa	Rajamangala University of Technology Thanyaburi
	iNAM-P018	Onsite	10852	Investigation of Dielectric and Ferroelectric of Niobium and Lithium Co-Doped Bismuth Sodium Potassium Titanate Ceramics	Wilaiwan Leenakul	Rajamangala University of Technology Phra Nakhon
iNAM-P019	Onsite	10853	Copper(II) Oxide/Reduced Graphene Composite Electrodes for Supercapacitors Performance	Santi Rattanaveeranon	Rajamangala University of Technology Rattanakosin	
iNAM-P020	Online	10247	Electrochemical Behavior and Characterization of Nanochitosan-2,4-dihydroxybenzaldehyde as a Sensor for the determination of Copper(II) ion	Rattiya Saradit	Rajamangala University of Technology Srivijaya	

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Room: Sapphire B

Session: Tourism Cultural and Creative technology

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Room: Sapphire B						
13.00-13.30	IV-ITCC-001	Onsite		Humanizing Technologies for High Value Tourism: Unlock Thailand's Capability to Sustainability	Prof. Dr. Therdchai Choibamroong	National Institute of Development Administration NIDA, Thailand
13.30-13.50	iTCC-001	Onsite	10419	Environmentally Responsible Behavior of Tourists in the Coastal Tourism Destination	Surasak Jotaworn	Rajamangala University of Technology Thanyaburi
13.50-14.10	iTCC-002	Online	10470	The Creation of Rong Ngeng Rhythms on Drum Set	Sittichok Kabilapat	Songkhla Rajabhat University
14.10-14.30	iTCC-003	Online	10474	The Creation of Power of Love: Orchestral Arrangements	Atipon Anukool	Songkhla Rajabhat University
14.30-14.50	iTCC-004	Online	10479	The Creation of Power of Love: A Cappella Arrangements	Sahaphat Aksorntueng	Songkhla Rajabhat University
14.50-15.10	iTCC-005	Online	10496	Disney Song Concert: The Creation of Brass Ensemble Concert for Undergraduate Bachelor of Musi	Weerasak Aksornteang	Songkhla Rajabhat University
15.10-15.20	Break Time 10 minute					
15.20-15.40	iTCC-006	Online	10512	The Creative Work for Piano From "Lagu Kayo-Sampan" A Urak-Lawoi's Song	Sanya Phaophuechphandhu	Songkhla Rajabhat University
15.40-16.00	iTCC-007	Onsite	10588	A Review of Government Functions in the Development of High Quality and Balanced Compulsory Education in China	Pakornkiat Sawetmethikul	Rajamangala University of Technology Thanyaburi
16.00-16.20	iTCC-008	Onsite	10589	The Recent Situation of Innovation and Entrepreneurship Education in Chinese Colleges and Universities	Pakornkiat Sawetmethikul	Rajamangala University of Technology Thanyaburi
16.20-16.40	iTCC-009	Onsite	10727	The Participatory Strategic Development for Creative Community-Based Tourism in Khao-Kram Subdistrict, Krabi Province	Worrapot Treesuk	Phuket Rajabhat University
16.40-17.00	iTCC-010	Online	10741	Thailand's Case: The Destination Country's Influence on Tourist Satisfaction	Gumporn Supasettaysa	Rajamangala University of Technology Phra Nakhon
17.00-17.20	iTCC-011	Online	10839	Arrangement of Lenang Song for Violin Solo	Wichai Mesri	Songkhla Rajabhat University

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Room: Sapphire A

Session: Visual Information Processing and Color Vision

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Room: Sapphire A						
09.00-09.30	IV-IVI-001	Online		Information input Interface Based on Eye Fluctuations	Prof. Hirohiko Kaneko	Tokyo Institute of Technology, Japan
09.30-10.00	IV-IVI-002	Online		Object Appearance Beyond Color Perception	Prof. Dr. Katsunori Okajima	Yokohama National University, Japan
10.00-10.20	IVI-001	Onsite	10249	Development of Critical Thinking skills problem solving skills Research based on research	Narumon Dongsang	Ubon Ratchathani Vocational College
10.20-10.30	Break Time 10 minute					
10.30-10.50	IVI-002	Onsite	10266	Color Constancy Assessed by the Elementary Color Naming under RGB-LEDs	Phubet Chitapanya	Rajamangala University of Technology Thanyaburi
10.50-11.10	IVI-003	Onsite	10267	Simultaneous Color Contrast on an Electronic Display with or without A Tissue Paper under Various Room Illuminances	Janejira Mepean	Rajamangala University of Technology Thanyaburi
11.10-11.30	IVI-004	Onsite	10282	Individual Identify Face Detection by Principal Component Analysis (PCA)	Supannika Yongsue	Rajamangala University of Technology Thanyaburi
11.30-11.50	IVI-005	Onsite	10311	Colors for Designing Advertisement Facebook Post Image of Food and Beverage Products on Facebook Fanpage	Natchaphak Meeusah	Rajamangala University of Technology Thanyaburi
12.00-13.00	Lunch Time					
13.00-13.30	IV-IVI-003	Online		Color and Material Appearance Influenced by Lighting Conditions	Prof. Dr. Yoko Mizokami	Chiba University, Japan
13.30-13.50	IVI-006	Online	10316	Features of Visually Impaired Persons' Evacuation Behaviors Indoors During Earthquakes	Mariko Wayaku	Osaka City University
13.50-14.10	IVI-007	Online	10319	Color Naming of Red-Green Color Deficiencies	Miyoshi Ayama	Utsunomiya University
14.10-14.30	IVI-008	Onsite	10324	Dessert Appetite Aroused by A Direction of Lighting Setup	Chatchai Nuangcharoenporn	Rajamangala University of Technology Thanyaburi
14.30-14.50	IVI-009	Onsite	10339	Representative Color of Thai Alternative Gender using K-Mean Cluster Analysis	Kitirochna Rattanakasamsuk	Rajamangala University of Technology Thanyaburi
14.50-15.10	IVI-010	Onsite	10340	Color Name and Aroma of Thai Flowers	Chanida Saksirikosol	Rajamangala University of Technology Thanyaburi
15.10-15.20	Break Time 10 minute					
15.20-15.40	IVI-011	Online	10894	A Study for Robustness of Fragrance Expression Through Color	Tadayuki Wakata	Waseda University
15.40-16.00	IVI-012	Online	10895	A Study of Individual Differences in Physiological Response to Light Exposure	Taiki Saito	Yamagata University
16.00-16.20	IVI-013	Online	10896	Color Consistency Evaluation for Images Reproduced in Different Color Gamuts	Yasuki Yamauchi	Yamagata University
16.20-16.40	IVI-014	Onsite	10341	The Effectiveness of Augmented Reality Data Access through a Smartphone	Kanok Chinda	Rajamangala University of Technology Thanyaburi
16.40-17.00	IVI-015	Onsite	10375	The Comparison of The Weather Forecast Program with Thai Sign Language and Captioning between Hearing Impaired, Deaf and Hearing	Waiyawut Wuthiastarn	Rajamangala University of Technology Thanyaburi

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Room: Royal Opal Theatre

Session: Composite Materials and Technologies

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Royal Opal Theatre						
13.00-13.30	IV-iCOM-001	Onsite		Ionic Metal Ions and Its Chelation from Lab to Commercial Products	Dr. Warayuth Sajomsang	National Nanotechnology Center (NANOTEC), Thailand
13.30-14.00	IV-iCOM-002	Onsite		Nano Composite Material Based Gas Diffusion Layer for Proton Exchange Membrane Fuel Cell	Prof. Dr. Arunachala Nadar MADA KANNAN	Arizona State University, USA
14.00-14.20	iCOM-001	Onsite	10407	Novel Photoelectrocatalytic/Solar Cell Improvement for Organic Dye Degradation Based on Simple Dip Coating WO ₃ /BiVO ₄ Photoanode Electrode	Watchrarpong Nareejun	Rajamangala University of Technology Thanyaburi
14.20-14.40	iCOM-002	Onsite	10556	Preparation of Synthetic Hydrogel Sheets of Poly(Sodium 2-Acrylamido -2-Methylpropane Sulfonate) and Pectin for Absorption of Copper (II) Ion	Rattaphat Bunkerd	Rajamangala University of Technology Isan
14.40-15.00	iCOM-003	Onsite	10701	The Polymer Composite from Water Hyacinth with Recycled Polypropylene Straws for 3D Filament Application	Siripan Metanawin	Rajamangala University of Technology Thanyaburi
15.00-15.20	iCOM-004	Onsite	10703	The Thermal and Mechanical Properties of PP/PLA/ZnO Composite Nonwoven for Functional Textile Applications	Siripan Metanawin	Rajamangala University of Technology Thanyaburi
15.20-15.30	Break Time 10 minute					
15.30-16.00	IV-iCOM-003	Onsite		Functional Materials Based on Degradable Polylactide Copolymers and their Chemical-Recycling Products	Assoc. Prof. Dr. Pakorn Opaprakasit	Thammasat University, Thailand
16.00-16.30	IV-iCOM-004	Onsite		New Coatings for Anticorrosion	Assoc. Prof. Dr. Daniel Crespy	Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand
16.30-16.50	iCOM-005	Onsite	10418	Radiation-Induced Miniemulsion Polymerization of Polymer Particles for use as an Antimicrobial Coating Spray	Netnapha Kamlangmak	Rajamangala University of Technology Thanyaburi
16.50-17.10	iCOM-006	Onsite	10637	Study on Properties and Biodegradation in the Marine Environment of Cellulose Acetate Butylate/ Polylactic acid Blends	Pinuma Kaewrukka	Kasetsart University
17.10-17.30	iCOM-007	Onsite	10809	Development of Resort Style for the Identity Promotion of Prachin Buri Province	Sorapong Pavasupree	Rajamangala University of Technology Thanyaburi
Poster Presentation Room: Foyer						
18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iCOM-P001	Onsite	10372	Development of Carbon Dots Based on Gamma Irradiation from Water Hyacinth as a Fluorescent Sensor for Hg(II) Ion Detection	Chuleekorn Seesuea	Rajamangala University of Technology Thanyaburi
	iCOM-P002	Onsite	10412	Highly Practical and Reproducible BiVO ₄ Thin Film Fabrication using Automatic Dip-Coating Machine Towards for Photoelectrocatalytic Activities Improvement	Praewnapa Tomkham	Rajamangala University of Technology Thanyaburi

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18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iCOM-P003	Onsite	10426	Fabrication and Characterization of Bio-Based Polymer Particles for Antimicrobial Coating	Nattawut Rodtuk	Rajamangala University of Technology Thanyaburi
	iCOM-P004	Onsite	10710	Preparation of Poly(eugenol methacrylate) Microcapsules Encapsulated Magnetic Nanoparticles for Enzyme Recovery Application	Preeyaporn Chaiyasat	Rajamangala University of Technology Thanyaburi
	iCOM-P005	Onsite	10731	Natural Fiber-Reinforced Melamine Composites	Chinanat Witthayaprapakorn	Rajamangala University of Technology Lanna
	iCOM-P006	Onsite	10735	Study for Properties Improvement of Polystyrene Waste Reinforced Cement Mortars	Teerin Kongpun	Rajamangala University of Technology Rattanakosin
	iCOM-P007	Onsite	10899	Development of Carbon Dots from Cassava Pulp and Their Application in The Plant Growth Promotion and Metal Ion Sensing	Kanokorn Wechakorn	Rajamangala University of Technology Thanyaburi

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Room: Sapphire A

Session: Food Innovation and Smart Farm

Times	Code No.	Type	No. of Paper	Title	Presentation	Affiliation
Oral Presentation Room: Sapphire A						
09.00-09.30	IV-iFIS-005	Online		Agriculture 4.0: Technology Landscape to realize the Farms of the Future	Assoc. Prof. Dr. Lav R. Khot	Precision Agriculture Washington State University's Centre for Precision and Automated Agricultural Systems and Department of Biological Systems Engineering
09.30-10.00	IV-iFIS-006	Online		Technology adoption needs in farming and processing for food security in 21st century.	Assoc. Prof. Dr. Hemantha Jayasuriya	Sultan Qaboos University, Oman
10.00-10.20	iFIS-002	Online	10712	Parameter study for scratch detection in the poultry industry	Jullachak Chuntuan	Rajamangala University of Technology Thanyaburi
10.20-10.30	Break Time 10 minute					
10.30-10.50	iFIS-003	Online	10400	Study of relative of UAV Imagery and NDVI for Maize yield estimation	Phoomchai Traidatanon	Rajamangala University of Technology Thanyaburi
10.50-11.10	iFIS-004	Online	10450	A Smart Trap Device for Detection of Corn Armyworm in Maize Harvest	Jérôme Planchais	Rajamangala University of Technology Thanyaburi
11.10-11.30	iFIS-005	Onsite	10232	Combining Ability Analysis of Yield and Physico-Chemical Quality in Organic System of Pumpkin (Cucurbita moschata Duch. ex Poir.)	Chanulak Khanobdee	Rajamangala University of Technology Lanna
11.30-11.50	iFIS-006	Onsite	10705	Vertical Smart Farm for Planting Baby Green Cos and Baby Carrot	Maleeya Tangjitsetsada	Rajamangala University of Technology Suvarnabhumi
Poster Presentation Room: Foyer						
18 May 2022, 13.30-18.00 - 19 May 2022, 09.00-12.00	iFIS-P001	Onsite	10358	Effect of Pulse Intensity and Pulse Number on Total Flavonoid and Biological Activities of Mangosteen Pericarp Extracts	Janyawat Vuthijumnonk	Rajamangala University of Technology Lanna
	iFIS-P002	Onsite	10361	Effect of Temperature on Ascorbic Acid and Lycopene in Mixed Tomato Juice and Mandarin Juice	Wattana Wirivutthikorn	Rajamangala University of Technology Thanyaburi
	iFIS-P003	Onsite	10517	Effect of Solvent Types and Concentrations on the Bioactive Compound from Lime Peel by Low Power Ultrasound Assisted Extraction	Suriyaporn Nipornram	Rajamangala University of Technology Lanna
	iFIS-P004	Onsite	10679	Optimization Condition of Dry Loop-Mediated Isothermal Amplification Reaction Mixture for Detection of Salmonella spp.	Chiraporn Ananchaipattana	Rajamangala University of Technology Thanyaburi
	iFIS-P005	Onsite	10681	Sensory Characteristics and Nutritional Value of Pumpkin in Sweet Coconut milk (Fak-Thong-Keang-Buat) Daifuku	Apidech Pongprajak	Rajamangala University of Technology Thanyaburi
	iFIS-P006	Onsite	10688	Effect of Lotus Root Powder on Quality of Ice Cream	Paponpat Pattarathitawat	Rajamangala University of Technology Thanyaburi
	iFIS-P007	Onsite	10698	Product Development of Bread Fortified with Sappan Water	Rattanaporn Manokit	Rajamangala University of Technology Thanyaburi
	iFIS-P008	Onsite	10718	Isolation and Screening of Antibiotic Producing Lactic Acid Bacteria from Thai Fermented Foods in Talad Thai, Pathumthani, Thailand	Surachai Techaoei	Rajamangala University of Technology Thanyaburi
	iFIS-P009	Onsite	10721	Effects of Avocado Substitution on Physical and Sensorial Properties of Butter Cookies	Pompachen Chuchird	Rajamangala University of Technology Thanyaburi
	iFIS-P010	Onsite	10751	Quality Improvement of Aged Garlic Using Osmotic Dehydration and Using in White Bread	Kittikoon Wannasawad	Rajamangala University of Technology Thanyaburi
	iFIS-P011	Onsite	10860	Influence of Germination Time on Some Properties of Soybean and Black Sesame	Naruemon Mongkontanawat	Rajamangala University of Technology Tawan-ok
	iFIS-P012	Onsite	10500	The Study of Melon Pulp Color on Physicochemical Properties and Antioxidant Activity of Melon Juices and Melon Powders	Peerapong Ngamnikom	Rajamangala University of Technology Thanyaburi

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Session: Food Innovation and Smart Farm

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Oral Presentation Room: Royal Opal Theatre						
09.00-09.30	IV-iFIS-001	Online		Developing Sodium-Reduced Products Using Sensory Science Approaches	Prof. Dr. Witoon Prinyawiwatkul	School of Nutrition and Food Sciences Louisiana State University, USA
09.30-10.00	IV-iFIS-002	Online		New and emerging food safety issues	Assoc. Prof. Dr. John Yew Huat Tang	Universiti Sultan Zainal Abidin, Malasia
10.00-10.30	IV-iFIS-003	Onsite		Glass Transition Related Phenomena in Food Powder Processing and Deterioration	Asst. Prof. Dr. Pilairuk Intipunya	Chiang Mai University, Thailand
10.30-10.40	Break Time 10 minute					
10.40-11.10	IV-iFIS-004	Onsite		Food packaging innovation for Agro industry 4.0	Assoc. Prof. Dr. Nathdanai Hamkamsujarit	Kasetsart University, Thailand
11.10-11.30	iFIS-001	Onsite	10713	Effects of Alkali Water Boiling Combined with Acidulants on Anti-Browning Reaction of Avocado Puree During Chilling Storage	Arranee Chotiko	Rajamangala University of Technology Thanyaburi
11.30-11.50	iFIS-007	Online	10897	A Comparative Study of the Quality of Dietary Fiber from Defatted Rice Bran Extracted Using Different Methods	Piyatida Deeiam	Chiang Mai University
11.50-12.10	iFIS-008	Online	10898	Physicochemical quality of Gotu Kola Juice Treated by Non-Thermal Plasma	Nunnapus Bumrunpanichthaworn	Chiang Mai University