ICPS2017 Program
(Tentative)

November 8, 2017	
14.00-17.00	**Conference Registration**
18.00-20.00	**Committee, keynote speaker and invited speakers Meeting**

November 9, 2017			
8.30-12.00	**Conference Registration**		
Plenary Session (Room: Vanda I) MC: **Dr. Anuree Lorsawat / Dr. Kanokwan Nontapot**			
9.00-9.15	**Opening Ceremony**		
9.15-10.00	Keynote Speaker: **What is Synthetic Statistical Optics?** Synthesizing statistical optical fields with desired coherence and polarization properties **Professor Mitsuo Takeda** *Utsunomiya University, Tochigi Japan*		
10.00-10.15	**Group photos**		
10.15-10.35	**Coffee/Tea Break**		
Time/Room	**Room: Vanda I** **Digital Optics-Sensing and Imaging/ Optics in Energy and Green Photonics/** Chairman: **Dr. Sarun Sumriddetchkajorn**	**Time/Room**	**Room: Vanda II** **Nonlinear Optics/Quantum and Atom Optics** Chairman: **TBA**
10.35-11.00	**Incoherent holographic spectrometry** (P206) *Invited speaker:* Prof. Kyu Yoshimori Faculty of Science and Engineering, Iwate University, *Japan*	10.35-10.50	**Formalism of Photons in a Nonlinear Microring Resonator** (P253) Quang Loc Tran and Preecha Yupapin Ho Chi Minh City University of Science, *Vietnam*
11.00-11.15	**Examination of painting using total internal reflection digital in-line holography** (P210) Prathan Buranasiri, Thitima Rueangthongdi and Nuttinant Towas King Mongkut's Institute of Technology Ladkrabang,	10.50-11.05	**Raman lasers with injection locking for atom Interferometer** (P244) Fei Zi, Daji Zeng, Jianing Deng, Tong Li, Mingli Sun, Xian Zhang, Kaikai Huang and Xuanhui Lu Zhejiang University, *China*

	Thailand		
11.15-11.30	**On-Orbit Point Spread Function Estimation for THEOS Imaging System** (P259) Suphongsa Khetkeeree and Sompong Liangrocapart Mahanakorn University of Technology, *Thailand*	11.05-11.20	**Multi-photons Squeezing of Photons in a Nonlinear Micro-ring Resonator By two Photon Input Sources** (P262) Wanchai Khunnam Naresuan university, *Thailand*
11.30-11.45	**Study of Structural and Optical Properties of PbS Thin Films** (P217) Tanapat Homrauen, Yosita Sudswasd, Rattanawadee Sorod, Navaphun Kayunkid and Witoon Yindeesuk King Mongkut's Institute of Technology Ladkrabang, *Thailand*	**11.20-11.45**	**The leaky and bound modes of graphene surface plasmons for plasmonics Devices** (P255) *Invited speaker:* Prof. Asghar Asgari University of Tabriz, *Iran* University of Western Australia, *Australia*
11.45-12.00	**The Influence of Microstructures Shape on the Relative Reflectance of Multicrystalline Silicon Surface** (P205) Quanji Wang, Fangfang Chen and Weidong Zhou Zhejiang Normal University, *China*	11.45-12.00	**Mechanical Response of Nematic Liquid Crystal Droplets to Polarized Laser Tweezers** (P257) Jarinee Kiang-ia, Apichart Pattanaporkratana and Nattaporn Chattham Kasetsart University, *Thailand*
12.00-12.15	**Electron Transport Layer on 3D FTiR Structure with Optimization CdSe Deposition Cycles on CdS Quantum Dot-Sensitized Solar cells** (P208) Nattha Buatong, Weeraphat Pon-On and Nopporn Rujisamphan King Mongkut's University of Technology Thonburi, *Thailand*	12.00-12.15	**Silicon Dielectric Metalens for Optical Trapping** (P271) Satayu Suwannasopon, Fabian Meyer , Christian Schlickriede, Nattaporn Chattham and Thomas Zentgraf Kasetsart University, *Thailand*
12.15-13.30	**Lunch**		
Time/Room	**Room: Vanda I** **Laser Applications/Optics Applications /Education in Optics** **Chairman: Prof. Kyu Yoshimori**	**Time/Room**	**Room: Vanda II** **Metamaterials and Optical Materials/Optics in Metrology** **Chairman: TBA**
13.30-13.55	**3D motion picture of transparent gas flow by parallel phase-shifting digital holography** (P232) *Invited speaker:* Prof. Yasuhiro Awatsuji Takahito Fukuda, Peng Xia, Takashi Kakue and Osamu Matoba Kyoto Institute of Technology, *Japan*	13.30-13.45	**Design of Dual wideband Microstrip Antenna loaded with SRR metamaterial** (P274) Ujjal Chakraborty and Sourav Roy National Institute of Technology, *India*

13.55-14.10	**Evaluating Concentration on the Tasks in Building Device Independent Graininess Reproduction Model** (P229) Junki Yoshii, Yuto Hirasawa, Norimichi Tsumura and Shoji Yamamoto Chiba University, *Japan*	13.45-14.00	**Third-Harmonic Generation in Tunable Nonlinear Hyperbolic Metamaterials** (P222) Surawutw Wicharn and Prathan Buranasiri Srinakharinwirot University, Thailand
14.10-14.25	**Introduction to Photonics: Principles and Most Recent Applications** (P272) Iraj S Amiri and P Yupapin Ton Duc Thang University, *Vietnam*	14.00-14.15	**Prediction of electronic and optical properties of ZnAl2Te4 defect chalcopyrite semiconductor: an ab-initio study** (P269) S. K. Tripathy Tripathy, Rishikanta Mayengbam Mayengbam and B. P. Pandey Pandey National Institute of Technology, *India*
14.25-14.40	**Reviews on Laser Cutting Technology for Industrial Applications** (P230) Thanin Muangpool and Saroj Pullteap Silpakorn University, *Thailand*	**14.15-14.40**	**Data-Centric Method for Object Observation through Scattering Media** *Invited speaker:* **Prof. Jun Tanida** Osaka University, *Japan*
14.40-15.05	**The design and development of CO2 medium-level laser power calibration system for industrial and medical applications in Thailand** (P247) *Invited speaker:* **Dr. Kanokwan Nontapot** National Institute of Metrology, *Thailand*	14.40-14.55	**Isochromatic Photoelasticity Fringe Patterns in Various Shapes of PMMA** (P215) Yongyut Manjit, Athipong Ngamjarurojana and Apichart Limpichaipanit Chiang Mai University, *Thailand*
		14.55-15.10	**Characteristics of fork fringes formed by two obliquely-incident vortex beams with different topological charge numbers** (P267) Apichart Pattanaporkratana, Suvipak Chomdaeng and Nattaporn Chattham Kasetsart University, *Thailand*
15.10-15.30	**Coffee/Tea Break**		
Time/Room	**Room: Vanda I** **Optical Signal Processing** Chairman: **Prof. Preecha Yupapin**	**Time/Room**	**Room: Vanda II** **Biophotonics/Optics in Healthcare and Biomedical/Photonic Integrated Circuit /Optical Fiber Technology** Chairman: **TBA**
15.30-15.55	*Invited speaker:* Prof. Norimichi Tsumura	15.30-15.45	**Silicon Photonic Resonator for Label-Free Bio-sensing Application** (P219) Suruk Udomsom, Nipon Theera-Umpon, Ukrit Mankong, Nattapol Ittipratheep, Toshimasa Umezawa

			and Atsushi Matsumoto Chiang Mai University, *Thailand*
15.55-16.10	**Study of 3-D profilometry by using wavelet filters** (P236) Joewono Widjaja, Taweesak Chaiyakhun and Jaroon Wongjarern Suranaree University of Technology, *Thailand*	15.45-16.00	**A molecular-sized optical logic circuit for digital modulation of a fluorescence signal** (P235) Takahiro Nishimura, Karin Tsuchida, Yusuke Ogura and Jun Tanida Osaka University, *Japan*
16.10-16.25	**Distributed Naked-eye 3D Imaging Networks using the Micro-conjugate Mirror Nodes** (P248) Khomyuth Chaiwong , Kreangsak Tamee , Iraj S. Amiri, Loc Tran and Preecha Yupapin Rajabhat University, Loei, *Thailand*	16.00-16.15	**Microscopic optical path length difference and polarization measurement system for cell analysis** (P260) HIroki Satake, Kanami Ikeda, Hiroyuki Kowa, Takashi Hoshiba and Eriko Watanabe The University of Electro-Communications, *Japan*
16.25-16.40	**Object segmentation using graph cuts and active contours in a pyramidal framework** (P243) Priyambada Subudhi and Susanta Mukhopadhyay Indian Institute of Technology, *India*	**16.15-16.40**	**Multimodality of phase and fluorescence in digital holography** (P231) *Invited speaker:* Prof. Osamu Matoba Xiangyu Quan and Yasuhiro Awatsuji Kobe University, *Japan*
16.40-16.55	**All-Optical Logic and Arithmetic Unit for Big Data Processing** (P263) Prapas Phongsanam Kasembundit University, *Thailand*	16.40-16.55	**Modelling the Optical Transmissivity of Graphene Grate in On-Chip Silicon Photonic Device** (P252) Iraj S Amiri, MM Arainnejad and P Yupapin Ton Duc Thang University, *Vietnam*
16.55-17.10	-	16.55-17.10	**Qualified Measurement Setup of Polarization Extinction Ratio for Panda PMF with LC/UPC Connector** (P266) Rutsuda Thongdaeng and Duang-rudee Worasucheep Celestica, Chonburi, *Thailand*
18.30-22.00	**Conference Banquet**		

November 10, 2017			
Time/Room	**Room: Vanda I** **Optical Communication Systems and Devices I** Chairman: **TBA**	**Time/Room**	**Room: Vanda II Nanophotonics and Micro-Nano Optics / Spectroscopy and Application** Chairman: **TBA**
8.50-9.05	**BER Performance of Multimode Fiber Low-Frequency Passbands in Subcarrier Multiplexing Transmission** (P203) Surachet Kanprachar, Jaruwat Patmanee and Chairat Pinthong Naresuan University, *Thailand*	**8.50-9.15**	**3-D Object Shape Reconstruction Using Structured Light Illumination** (P234) *Invited speaker:* Prof. Joewono Widjaja Suranaree University of Technology, *Thailand*
9.05-9.20	**Efficient resource management using physical layer impairment (PLI) constraints in WDM/DWDM Network** (P207) Santos Kumar Das and Vikram Kumar National Institute of Technology Rourkela, *India*	9.15-9.30	**Electronics for Q-factor Determination of Piezoelectric Quartz Tuning Fork** (P216) Tipsuda Chaipiboonwong and Jutaporn Wannaphum Thammasat University , *Thailand*
9.20-9.35	**Performance analysis of various modulation schemes in free space optical (FSO) wireless communication systems** (P214) Santos Kumar Das, Vinod Kiran and Arpita Mishra National Institute of Technology Rourkela, *India*	9.30-9.45	**Local Electric Field Enhancement In Carbon Encapsulated Silver Nanoparticles** (P220) R.K. Soni Indian Institute of Technology Delhi, *India*
9.35-10.00	**Utilization of optical scattering by ZnO nano-rods for vapor sensing through side coupling to optical fibers** *Invited speaker:* Prof. Waleed Mohammed Bangkok University, *Thailand*	9.45-10.00	**Experimental Study Of Fourier Transform Spectroscopy** (P223) Pornapa Artsang and Panomsak Meemon Suranaree University of Technology, *Thailand*
10.00-10.15	**Naked-eye 3D Imaging Employing a Modified MIMO Micro-ring Conjugate Mirrors** (P254) Nithiroth Pornsuwancharoen, Phichai Youplao, I.S. Amiri and Preecha Yupapin Ton Duc Thang University, *Thailand*	10.00-10.15	**Feasibility study of LIBS on archaeological objects found in Thailand: Khlong Thom glass beads** (P211) Krit Won-in and Pisutti Dararutana Kasetsart University, *Thailand*
10.15-10.30	A design multifunctional plasmonic optical device by micro ring system (P256) Phichai Youplao, Nithiroth Pornsuwancharoen, I.Sari Amiri and Preecha Yupapin Ton Duc Thang University, *Vietnam*	10.15-10.30	-
10.30-10.50	**Coffee/Tea Break**		
Time/Room	**Room: Vanda I** **Nanophotonics and Micro-Nano Optics**		**Room: Vanda II Optics for Agriculture and Industrial/ Optical Simulation and Design**

	Chairman: TBA		Chairman: TBA
10.50-11.05	**Omnidirectional Anti-reflection Properties of Vertically Align SiO2 Nanorod Films Prepared by Electron Beam Evaporation with Glancing Angle Deposition** (P218) Rattagan Prachachet, Benjarong Samransuksamer, Mati M. Horprathum, Pitak Eiamchai, Saksorn Limwichean, Chanunthorn Chananonnawathorn, Pennapa P. Muthitamongkol, Tossaporn Lertvanithphol and Pratarn Buranasiri Mongkut's Institute of Technology Ladkrabang, *Thailand*	10.50-11.05	**A simplified and powerful image processing methods to separate Thai jasmine rice and sticky rice varieties** (P237) Piyoros Khondok and Kajpanya Suwansukho Mongkut's Institute of Technology Ladkrabang, *Thailand*
11.05-11.20	**Prototype of Chemical Agent Monitor Simulator: CAMSIM** (P238) Chonmapat Torasa and Pisutti Dararutana Suan Sunandha Rajabhat University, *Thailand*	11.05-11.10	**Detection of Rice Grain Chalkiness Level with Laser Transmission Detection** (P258) Achira Sujarit, Nattaporn Chattham and Kunya Cheaupan Kasetsart University, *Thailand*
11.20-11.35	**Flexible and Disposable Plasmonic Refractive Index Sensor Using Nanoimprint Lithography** (P261) Saswat Mohapatra and Rakesk Singh Moirangthem Indian Institute of Technology Dhanbad, *India*	11.10-11.35	**Effects of temperatures on wavelength calibration of the optical spectrum analyzer** (P250) Kittiphong Mongkonsatit, Monludee Ranusawud, Sittichai Srikham, Aphichai Bhatranand and Yuttapong Jiraraksopakun Mongkut's University of Technology Thonburi, *Thailand*
11.35-12.00	**Generation and characterization of polarization structures** *Invited speaker:* Prof. Yoko Miyamoto University of Electro-Communications *Japan*	11.35-11.50	**The Design of a High Speed Dual Spectrometer by Single Line Scan Camera** (P227) Panomsak Meemon and Kunakorn Palawong Suranaree University of Technology, *Thailand*
12.00-12.15	**Tunable polarization-independent coherent perfect absorption in the metal-graphene metasurface** (P265) Xiaoxu Deng, Yaying Ning, Xuanyi Yu, Zhewei Dong, Jiangnan Si and Chen Sun Shanghai Jiao Tong University, *China*	11.50-12.05	**Low cost digital microscope for non-contact high precision thickness topography of thin films** (P228) Panomsak Meemon, Atchariyasart Phongsa, Kunakorn Palawong, Jadsada Saetiew and Jiraporn Saenjae Suranaree University of Technology, *Thailand*
12.15-12.30	**Computation of Ion Exchange Buried Microring Resonators** (P273) Iraj S Amiri, MM Ariannejad and P Yupapin Ton Duc Thang University, *Vietnam*	12.15-12.30	-

12.30-13.30	**Lunch**
Time/Room	**Room: Vanda I** **Optics in Astronomy /Optical Communication Systems and Devices II /Optical Simulation and Design I** Chairman: **Prof. Athikom Roeksabutr**
13.30-13.55	**Activity status and future plans for the Optical Laboratory of the National Astronomical Research Institute of Thailand** (P201) *Invited speaker:* Christophe Buisset Apirat Prasit, Mary Angelie Alagao, Weerapot Wanajaroen, Piyamas Choochalerm, Saran Poshyachinda, Boonrucksar Soonthornthum , Apichat Leckngam, Griangsak Thummasorn, Thierry Lepine and Yves Rabbia National Astronomical Research Institute of Thailand (Public Organization), *Thailand*
13.55-14.05	**Online controlled low-cost digital telescope with object tracking system for education** (P251) Gaël Serge Alain Robin, Anant Kumar Shukla, Dr. Waleed Mohammed and Dr. Romuald Jolivot Bangkok University, *Thailand*
14.05-14.20	**Tuning of band gap in graphene-based two-dimensional photonic crystal** (P264) Behrooz Rezaei and Ali Asghar Sedghi University of Tabriz, *Iran*
14.20-14.35	**Measurement of Characteristic Parameters of 10 Gb/s Bidirectional Optical Amplifier for XG-PON** (P268) Suchaj Rakkammee, Budsara Boriboon, Duang-rudee Worasucheep and Naoya Wada Chulalongkorn University, *Thailand*
14.35-14.50	**Tailoring light-sound interactions in a single mode fiber for the high-power transmission or sensing applications** (P233) Aamir Gulistan, Mohammed Moseeur Rahman, Souvik Gosh and Azizur Rahman City University of London, *United Kingdom*
14.50-15:10	**Closing Ceremony**