



## ISST 2015 SCHEDULE

Time	Scheduled
<b>Wednesday, August 5<sup>th</sup>, 2015</b>	
<b>Venue: Pascasarjana Bulding ITS</b>	
<b>07.30 - 08.30</b>	Registration
<b>08.30 - 09.00</b>	<b>ISST 2015 Opening Ceremony</b> Remark from Committee (Dr. Aulia Siti Aisjah) Official welcome from Director of Post Graduate Program ITS (Prof. Adi Supriyanto) Official welcome & opening from Rector ITS (Prof. Joni Hermana) Overview the program
<b>09.00 - 09.20</b>	Coffee Break
<b>09.20 - 10.00</b>	1 <sup>st</sup> Keynote Speaker: Prof. Azzedine Boudrioua <i>Science and Technology of Light: recent developments and future directions</i> <u>Moderator:</u> Dr.rer.nat Aulia MT Nasution
<b>10.00 - 10.40</b>	2 <sup>nd</sup> Keynote speaker: Prof. Tsuyoshi Usagawa <i>Potential of e-Learning for enhancing graduate and undergraduate education</i> <u>Moderator:</u> Dr. Dhany Arifianto
<b>10.40 - 12.00</b>	Invited Speaker 1: Dr. Siti Machmudah <i>Research Opportunities in Japanese Universities and Tips for Scientific Publications</i> Invited Speaker 2: Dr. Ridho Bayuaji <i>Utilization of Local Materials in Green Concrete Technology</i> Invited Speaker 3: Dr. Sri Fatmawati <i>An Overview of Ganoderma lingzhi Constituents on <math>\alpha</math>-Glucosidase and Aldose Reductase Inhibitory Activity</i> Invited Speaker 4: Dr. Totok Ruki Biyanto <i>Green Concept in Engineering Practice</i> <u>Moderator:</u> Dr. Bambang Lelono
<b>12.00 - 13.00</b>	Break, lunch and pray
<b>13.00 - 15.00</b>	Parallel sessions
<b>15.00 - 15.30</b>	Coffee break and pray
<b>15.30 - 16.30</b>	Parallel sessions
<b>16.30 - 16.45</b>	Announcement of the Best Paper and Closing Ceremony
<b>16.45 - 17.00</b>	Certificate Distribution



## ROOM A

Time	Code	Title and Authors
13.00-13.15	A-101	Simulation Bursting Effects to The Performance Vertical Axiz River Turbine using Computational Fluid Dynamics <i>Aank Suseno, Hantoro Ridho, Gunawan Nugroho</i>
13.15-13.30	A-102	Optimization of Flash Steam Geothermal Power Plant in Indonesia <i>Daril Ridho Zuchrillah, Renanto Handogo, Juwari Purwo Sutikno</i>
13.30-13.45	A-103	Economical Aspect of Heat Exchanger Cleaning Affected by Fouling <i>Mades Darul Khairansyah, Totok R. Biyanto</i>
13.45-14.00	A-104	Cost Optimization in Scheduling on Cleaning Heat Exchanger <i>David Licindo, Renanto Handogo, Juwari Purwo Sutikno</i>
14.30-14.45	A-107	QM/MM dynamics of Proton Transport in Chitosan/Phosphotungstic Acid Composite Membrane for Direct Methanol Fuel Cell <i>Linda Windia Sundarti, Lukman Atmaja, I Gusti Made Sanjaya</i>
14.45-15.00	A-108	Enhancement Concentration of Bioethanol Through Packed Sieve Tray Distillation <i>Fadlilatul Taufany, I G. N. Pranata Adi Putra, Rydho Jalu Nuringtyas</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	A-109	Impact of Biogas Purification System on Generated Power in Gas Engine Generator <i>Fadlilatul Taufany, Bobby Rama Jaya R, Ardhiya</i>
15.45-16.00	A-111	Simulation of Solar-Assisted Single Stage Absorbtion Chiller as Ice Maker Based on MATLAB <i>Ridho Hanroto, Dwi Ganef Janesa</i>
16.00-16.15	A-112	Determination Analysis of Dish Collector Focal Shape in Vertical and Horizontal Direction to Know Performances of Concentrating Solar Power System <i>Dany Iman Santoso, Djatmiko Ichsani</i>

## ROOM B

Time	Code	Title and Authors
13.00-13.15	B-113	Used Cooking Oil Esterification Heterogeneous Acid Catalysts as Biodiesel Making Learning Materials in Laboratory <i>Nungky Purwasusanti, Ratna Ediati</i>
13.15-13.30	B-114	Waste Power Plant Modeling Based Landfill Pretreatment and HCCI (Homogeneous Charge Compression Ignition) Generator Engine <i>Wahyu Hendra W, Gunawan Nugroho</i>
13.30-13.45	B-115	Model Based Controller With Internal Model Control (IMC) which Tunning by Set Point and Disturbance on Power Plant Based HYSYS <i>Hendrik Elvian Gayuh Prasetya, Totok R. Biyanto</i>



13.45-14.00	B-201	Evaluation of The Suitability of Urban Parks Based on The Characteristic of The Elderly's Needs in Surabaya <i>Anindita Ramadhani, Endang Titi Sunarti Darjosanjoto, Murni Rachmawati</i>
14.00-14.15	B-202	Waste Transportation System Optimization on Azzahara Material Recovery Facility (MRF) Bengkulu City <i>Rendra Satria, Putu Artama, Joni Hermana</i>
14.15-14.30	B-203	The Arrangement of Downtown Area as Effort to Represent Identity of Ambon [Case Study: A. Y. Patty Street Area] <i>Kreisson Pisty Larwuy, Endang Titi Sunarti Darjosanjoto, Murni Rachmawati</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	B-206	The Partnership Benefits in Low-cost Apartment Implementation Program in Surabaya Metropolitan Area <i>Muntoha M, Soemitro R.A.A, Rahmawati F</i>

## ROOM C

Time	Code	Title and Authors
13.00-13.15	C-210	PVDF/PEG/TiO <sub>2</sub> Hollow Fiber Membrane for Lead(II) Removal <i>Shabrina Adani Putri, Fithri Yatul Humairo, Chi Siang Ong, Nurul Widiastuti, Juhana Jaafar, Ahmad Fauzi Ismail</i>
13.45-14.00	C-213	Characteristics of Fishermen Communities in The Coastal of East Balikpapan <i>Tiara Irawanti, Eko Budi Santoso, Haryo Sulistyarso</i>
14.00-14.15	C-214	Spatial Modelling of Religious Tourism Development Strategy with Special Reference of Aer Mata Cemetery Bangkalan Madura, Indonesia <i>Katherine E.D.P. Permanasari, Endang Titi Sunarti Darjosanjoto, Murni Rachmawati</i>
14.30-14.45	C-216	3D Seismic Tomography Imaging of Taiwan Substructure <i>Susi Anggraini Diah Ningrum, Bagus Jaya Santosa</i>
14.45-15.00	C-217	The SFA-LSSVM as a Decision Support System for Mitigating Liquefaction Disasters <i>Julian Pratama Putra Thedja, Jui-Sheng Chou, Tri Joko Wahyu Adi</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	C-218	The Effect of Green Building Application to Property Value <i>Fitri Rahmawati, Christiono Utomo, Purwanita Setijanti</i>

## ROOM D

Time	Code	Title and Authors
13.00-13.15	D-301	A Review on User Perception of Desktop and Mobile Service Website using Webqual and User Experience Approach <i>Rizqiyatul Khoiriyah, Apol Pribadi Subriadi</i>



13.15-13.30	D-302	Kinect Depth Image Processing for Hand Motion Recognition using Neural Network Backpropagation <i>Syamsiar Kautsar, Purwadi A. Darwito</i>
13.30-13.45	D-303	Self Tuning Sliding Mode Control for Quadrotor Waypoint Tracking <i>Swadexi Istiqphara, Trihastuti Agustinah, Ali Fatoni</i>
13.45-14.00	D-304	Analysis of N-nitrosodiprophylamines Carcinogenic Compound to Meat-Processing using Headspace-Single Drop Microextraction-Gas Chromatography-Flame Ionization Detector (HS-SDME-GC-FID) <i>Teguh Hari Sucipto, Ganden Supriyanto, Yanuardi Raharjo</i>
14.00-14.15	D-305	An Analysis of E-Commerce Adoption for Small and Medium Enterprises in Indonesia <i>Fauzan Fahruzzaman, Apol Pribadi Subriadi</i>
14.15-14.30	D-306	Braille Character Recognition using Artificial Neural Network <i>Joko Subur, Tri Arief Sardjono, Ronny Mardiyanto</i>
14.30-14.45	D-307	Implementation of Navigation Target Seeker Mobile Robot Based on Pattern Recognition with Fuzzy Kohonen Network (FKN) Methods <i>Aditya P. P. Prasetyo, Katjuk Astrowulan, Ali Fatoni</i>
15.00-15.30	Coffee Break and Pray	
15.30-15.45	D-309	Parsing Indonesian Syntactic with Recursive Neural Network <i>Karisma Trinanda Putra, Djoko Purwanto, Ronny Mardiyanto</i>
15.45-16.00	D-310	The Design of E-Learning (share.its.ac.id) Course "Sistem Pengendalian Otomatis" to Support Effective Learning Outcomes <i>Syamsul Arifin, Aulia Siti Aisjah, Nurlita Gamayanti, Tutug Dhanardono, Yaumar, Yusuf Bilfaqih</i>
16.00-16.15	D-311	Design Fuzzy Disturbance Observer with Neuro-Fuzzy Invers Model for Parallel Hybrid Electric Vehicle Speed Controller <i>Yoga Alif Kurnia Utama, Trihastuti Agustinah, Josaphat Pramudijanto</i>

## ROOM E

Time	Code	Title and Authors
13.00-13.15	E-312	The Fusion of Smartphone Sensors for Indoor 3D Position and Orientation Estimation <i>Hani Ramadhan, Charles Lenay, Dominique Lenne</i>
13.15-13.30	E-313	Automatic Detection of Proliferative Diabetic Retinopathy with Hybrid Feature Extraction Based on Scale Space Analysis and Tracking <i>Wilda Imama Sabilla, Rully Soelaiman, Chastine Fatichah</i>
13.30-13.45	E-314	Prioritizing Usability Factors for Website Usability Improvement: A Case Study of Student Information System of Brawijaya University <i>Niken Hendrakusma Wardani, Apol Pribadi Subriadi</i>



13.45-14.00	E-315	Filmless Hospital with PACS as a Workflow Controller, Case Study: National Hospital Surabaya <i>Romeo, Febriliyan Samopa</i>
14.00-14.15	E-316	Solving Course Timetable Problem by using Integer Linear Programming (Case Study IE Department of ITS) <i>Fakher Shwan Rafeek, Nurhadi Siswanto</i>
14.15-14.30	E-317	Signal Enhancement by Single Channel Source Separation <i>B. T. Atmaja, Dhany Arifianto</i>
14.30-14.45	E-318	A Hybrid Approach Support Vector Machine (SVM) – Neuro Fuzzy for Fast Data Classification <i>Elsen Ronando, M. Isa Irawan, Erna Apriliani</i>
14.45-15.00	E-319	Comparative Study on Data Mining Methods in Structural Reliability Prediction <i>Willy Husada, I-Tung Yang, Tri Joko Wahyu Adi</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	E-320	Distortion Inspection System Development of Rearview Mirror using Radial Line Method Based on Image Processing <i>Detak Yan Pratama, Apriani Kusumawardhani, Aulia M T Nasution, Andi Rahmadiansyah, Achmadi</i>
15.45-16.00	E-321	Indonesian Signaling Identification System Based on Hand Pose Gesture Recognition using Microsoft Kinect <i>Andi Rahmadiansah, Apriani Kusumawardhani, Heri Justiono, Detak Yan Pratama, Hendra Irawan</i>
16.00-16.15	E-322	Sliding Mode Control System of Single Phase Buck-Boost Inverter with Buffer Inductor <i>Purwadi Agus Darwito, Arief Abdurrahman, Almas Fachrullah</i>

## ROOM F

Time	Code	Title and Authors
13.15-13.30	F-402	Calculation Method to Analyze Concordance Between Supply and Demand of Bus Public Transport For Morning Commuter Trip At Gubeng Station <i>Jos Oktarina Pratiwi, Hitapriya Suprayitno</i>
13.45-14.00	F-404	Managing Risk of Lean Manufacturing Concept Implementation Approaching by Delphi and HOR <i>Wiwin Widiasih, Putu Dana Karningsih, Udisubakti Ciptomulyono</i>
14.00-14.15	F-405	The Significant of Cobit Mapping Business Goal 12 and IT Goal 19 (Case Study: Stikom Surabaya) <i>Siti Mukaromah, Apol Pribadi Subriadi</i>
14.15-14.30	F-406	Method for Assessing Implementing Design Build Project Delivery System In Indonesian Road Infrastructure Projects (Cases Study : Balai Besar Pelaksanaan Jalan Nasional V)



*Asri Maharani, Hitapriya Suprayitno, Herry Budianto*

14.30-14.45	F-407	Business Process Anomali Detection using Multi-Level Class Association Rule Learning
-------------	-------	--

*Fernandes Sinaga, Riyanarto Sarno*

14.45-15.00	F-408	Performance Improvement of Business Process Similarity Calculation using Word Sense Disambiguation
-------------	-------	--

*Endang Wahyu Pamungkas, Riyanarto Sarno, Abdul Munif*

15.00-15.30

Coffee Break and Pray

15.45-16.00	F-410	The Influence of Product and Facade Design towards Its Selling Price
-------------	-------	--

*Imanuel Mbake, Christiono Utomo, Purwanita Setijanti*

16.00-16.15	F-411	The Market Opportunities of Hotel Investment in Semarang
-------------	-------	--

*Nadiar Pratiwi, Christiono Utomo, Purwanita Setijanti*

## ROOM G

Time	Code	Title and Authors
13.00-13.15	G-501	Computational Fluid Dynamics Analysis into The Improvement of Seakeeping Characteristics of A Fast Craft Using Axe-Bow <i>Romadhoni, IKAP Utama, Binbin LI</i>
13.15-13.30	G-502	Analysis of Spatial Characteristic of Maritime Weather in Java Sea Water <i>Rachmad Andri Atmoko, Aulia Siti Aisjah, Gunawan Nugroho</i>
13.30-13.45	G-503	Vessel Collision Avoidance System (VCAS) Based on AIS Data <i>Arinta Y. Wardani, A.A. Masroeri, Aulia S. Aisjah</i>
13.45-14.00	G-504	Design of Tracking System and Disturbance Rejection using Neural Networks for Autonomous Underwater Vehicle <i>Abdul Muis Prasetya, Trihastuti Agustinah, Joko Susila</i>
14.00-14.15	G-505	Study of Ship Damage Collision in Order to Determine Width of Double Skin Based on Width of Penetration <i>Teguh Putranto, Wasis Dwi Aryawan, Achmad Zubaydi</i>
14.30-14.45	G-507	Analysis of The Dynamic Stability Positioning Control System of Semisubmersible <i>Aulia Siti Aisjah, Eko Budi Djatmiko, Riza Aris Hikmadiyah, Nur Kholis</i>
14.45-15.00	G-601	Acoustic Performance of Live Music Café as Broadcasting Studio Concept at Shop Houses in Surabaya <i>Priya Lutvitania Pradita, Ima Defiana, Wiratno Argo Asmoro</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	G-602	HAZOP Study Based ANFIS Layer of Protection Analysis on Unit Kiln PT. Semen Indonesia Factory Tuban <i>Henry Prasetyo, Ali Musyafa</i>
15.45-16.00	G-604	Design of Model Predictive Torque Control (MPTC) for Speed Control 3 Phase Induction Motor with Robust Stator Flux Observer



## ROOM H

Time	Code	Title and Authors
13.00-13.15	H-605	Effects of Acetic Anhydride toward Degree of Substitution on Acetylation Method of Sago Starch (Metroxylon sp) from Papua <i>Yuliya Andriani Nanggewa, Adi Setyo Purnomo, Surya Rosa Putra</i>
13.15-13.30	H-606	Study Interpretation Phenomenon Vibration Magneto-Mechanical Fesi Sheets for Magnetic Transformer <i>Mukhamad Aziz, Vincent Lanfranchi, Nicolas Buiron</i>
13.45-14.00	H-608	Biomaker of Triassic Coal of Seram Island, Maluku Province <i>Jein Jelsi Lamia, R.Y. Perry Burhan</i>
14.15-14.30	H-610	Effect of Phospotungstic Acid Toward Composite Membrane for DMFC Application <i>Sri Endang Suharini, Dian Permana, Lukman Atmaja</i>
14.30-14.45	H-611	Effect of Calcium Carbonate as Filler at the Chitosan/CaCO <sub>3</sub> Composite Membrane <i>Retno Rahayu Dinararum, Dian Permana, Lukman Atmaja</i>
14.45-15.00	H-612	Antioxidant Activity of Mangifera Indica L. Leaves <i>Fitria, Sri Fatmawati, Taslim Ersam</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	H-613	Organic Geochemistry Study of Aliphatic Fraction of Bontang Coal, East Borneo <i>Titik Andriani, R. Y. Perry Burhan</i>
15.45-16.00	H-614	Temperature Measurement System Design Process on The Process of Drying Madura Tobacco Leaves <i>Humadillah Kurniadi Wardana, Endarko</i>
16.00-16.15	H-615	Synthesis of Polymeric Membrane for Desalination Process <i>I Made Pendi Adi Merta, Deffry Danius Dwi Putra, Siti Nurkhamidah, Yeni Rahmawati, Fadlilatul Taufany</i>
16.15-16.30	H-616	Synthesis of Nickel(Ni) Doped HKUST-1 using Solvothermal Method with Addition of Acetic Acid as Modulator <i>Farhan Fikri Safii, Ratna Ediat</i>

## ROOM I

Time	Code	Title and Authors
13.00-13.15	I-617	Silica-Coated Mesoporous Carbon as Solid Dessicant in Gas Dehydration Process <i>Fadlilatul Taufany, Fahmi, Nurhamidah</i>





13.15-13.30	I-618	Simulation Study of Parameter Estimation Two-Level GSTARX-GLS Model <i>Andria Prima Ditago, Suhartono</i>
13.30-13.45	I-619	Work Function Modulation with Self-assembled Monolayers: Effect of Dipole Moment on Packing Density <i>Nia Nurfitriya, Yu-Tai Tao, Ding-Chi Huang</i>
13.45-14.00	I-620	Conceptual Model Cognitive, Affective, Physical, and External Factor For Individual Information Technology Acceptance <i>Anfazul F. Azizah , Tony Dwi Susanto</i>
14.00-14.15	I-621	Simulation of Generalized Space-Time Autoregressive With Exogenous Variables Model With Variable of Type Metric <i>Reza Mubarak, Suhartono</i>
14.30-14.45	I-623	Interfacial Properties and Foamability of Amphiphilic Molecules <i>Stella Widyaningtyas, Audrey Drelich, Isabelle Pezron</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	I-625	Ternary Vapor-Liquid Equilibria for Alcohols + Glycerol + Water Systems to Enhance the Quality of Glycerol as Biodiesel Side Product <i>Eviana D. Setiawati, Asalil Mustain, Gede Wibawa</i>
15.45-16.00	I-626	Energy profile of faster-than-light particles : a new approach to the special theory of relativity <i>Matradji, Tutug Dhanardono, Heri Justiono</i>
16.00-16.15	I-627	Fault Diagnosis of Rotating Machinery based on Acoustic Emission using PARAFAC-Source Separation <i>Anindita Adikaputri Vinaya, Dhany Arifianto</i>
16.15-16.30	I-628	Vibration Effect on the SMS Fiber Structure <i>Ika Puspita, Ayu Kusumawardhani, Sekartedjo, A. M. Hatta</i>

## ROOM J

Time	Code	Title and Authors
13.00-13.15	J-629	Study of The Correlation Between Contact Angle Values with The Polarity of Liquids <i>Muhammad Alwi Syahara, Fredy Kurniawan, Wahyu Anggriawan</i>
13.15-13.30	J-630	Design of Model Predictive Torque Control (MPTC) for Speed Control 3 Phase Induction Motor with Robust Stator Flux Observer <i>Halim Mudia, Mochammad Rameli, Rusdhianto Efendi</i>
13.30-13.45	J-631	Test Performance of Double Crosses Membrane Contactor for Simultaneous Absorption-Desorption Of CO <sub>2</sub> Using Diethanolamine <i>Yeni Rahmawati, Toto Iswanto, Muhammad Rifa'i</i>
13.45-14.00	J-632	Effect of Sodium Hidroksida (NaOH) in Bitumen Separation Process from Asbuton in Hot Water <i>Afan Hamzah, Dita Ahmeta Ferdiansyah, Siti Nurkhamidah, Susianto</i>



# Schedule



14.00-14.15	J-633	Synthesis and Cytotoxicity of 4-Allyl-2-methoxyphenyl propionate <i>Lingga Kamadatu, Mardi Santoso</i>
14.15-14.30	J-634	Microbend in an SMS Fiber Structure <i>Fitri Rahmah, Sekartedjo, Agus Muhamad Hatta</i>
14.30-14.45	J-635	Aromatic Hydrocarbons of Wondama Coal, Papua Barat <i>Christoffel S. I. Maweikere, R. Y. Perry Burhan</i>
14.45-15.00	J-636	Effect of Glutaraldehyde Concentration Variation Toward Properties and Performance of Composite Membrane (Chi-Mmt) for Dmfc Application <i>Sudir Umar, Dian Permana, Lukman Atmaja</i>
15.00-15.30		Coffee Break and Pray
15.30-15.45	J-637	Photochemistry in CuInS <sub>2</sub> Quantum Dots/Polyoxometalate System <i>Azzah Dyah Pramata, Tetsuya Kida</i>
15.45-16.00	J-638	Surface Functionalization of Upconversion Nanoparticle for Biological Usage <i>Devi Wahyuningtyas, Hsien-Ming Lee, Hua-De Gao</i>
16.00-16.15	J-639	Prediction of Ceramic's Mechanical Properties Based on Sintering Temperature Using Neural Network <i>Zulkifli, Detak Yan Pratama, Dyah Sawitri, Purwadi Agus Darwito</i>