

Date: Saturday, October 13, 2018

Program of the Joint Conference for the 23rd ATCM and the 2nd ISIMMED

November 20-24, 2018, Yogyakarta State University, Indonesia

November 2	20, 2018 (Tuesday)
17:00-18:00	Registration:
18:30-21:00	Welcome Reception

November 21, 2018 (Wednesday)			
7:30-8:30	Registration		
8:30-9:30	Opening ceremony		
9:30-10:00	Tea Break		
10:00-10:50	Plenary Speech 1: Auditorium Room, Chair: Weng Kin HO		
	21657 Strong Algebraic Manipulation Skills Are Not Adequate For Cultivating		
	Creativity And Innovation Wei-Chi Yang		
11:00-12:00	Invited Speaker 1: FMIPA Seminar Room 1: (Chair:) 21664 MYMA Calculus: A		
	comprehensive e-Textbook and Online Homework System- Douglas Meade		
	Invited Speaker 2: FMIPA Seminar Room 2: (Chair:) TBA CHEN, Ouhao		

12:00-13:00 Lunch Break

13:00-13:50	-	on Speaker: FMIPA Seminar Room 1: (Chair: Ron Lancaster) 21575 A new online environment for doing and learning mathematics-Barry
14:00-15:00	minutes, unl	cion I. Presentations (Each contributed paper presentation slot is 25 ess otherwise specified. Please allow 3 minutes for Q&A, and 2
	minutes for	changeover)
	Room 1: (Chair: Faqir Bhatti)	
	14:00-14:25	21615 Learning and Teaching of Group Theory through Visualization using Graphs- Faqir Bhatti, Khawaj fahd
	14:30-14:55	21617 On Applications of Technology to Understanding Hierarchies of Elementary Geometry- Yosuke Sato, Ryoya Fukasaku, Katsusuke Nabeshima
	Room 2: (Ch	air: Maree Skillen)
	14:00-14:25	21629 Unlocking the Power of Data: Teaching Statistics to First-Year Life Science Students- Maree Skillen

	14:30-14:55	99 Pedagogical Content Knowledge in Undergraduate Teaching
	14:50-14:55	Mathematics Education - R. Rosnawati
	Room 3: (Cha	air: Ahmad Junaedi)
	14:00-14:25	10 The Comparison of Cooperative Learning model Teams Games
		Tournaments (TGT) and Teams Assisted Individualization (TAI) Types
		viewed from Emotional Intelligent on Seventh Grade Student of Junior
		High School - Ahmad Junaedi
	14:30-14:55	22 Prospective mathematics teachers' understanding of pedagogical
	Room 4: (Ch:	knowledge: what and where it came from - Putri Solekhah, Heri Retnawati air: Heri Retnawati)
		-
	14:00-14:25	24 Scaffolding for International Students in Statistics Lecture - Heri Retnawati
	14:30-14:55	83 Teacher Behavior in Student's Critical Thinking Ability Development - Sehatta Saragih
	Room 5: (Cha	air: Habibullah)
	14:00-14:25	39 An Analysis on Difficulties in Solving the Word Problem of Eighth
		Grade Students' in MTs Negeri 3 Indragiri Hilir - Habibullah; Hartono
	14:30-14:55	31 Why I Am Confused To Apply Mathematics Concept: Student
		Perspective Of Mathematics Role In Daily Life - Gamarina Isti Ratnasari
	Room 6: (Cha	air: Lana Sugiarti)
	14:00-14:25	44 Analysis of Students Difficulties on Algebra Problem Solving in Junior High School - Lana Sugiarti
	14:30-14:55	75 Analysis of Vocational School Students' Errors of Aljabar Function
		Limit Problem - Rosnida Nurhayati
	Room 7: (Cha	air: Dina Tri Utari)
	14:00-14:25	4 Forecasting Indonesian GDP Growth using Mixed Data Sampling (MIDAS) Regression - Dina Tri Utari
	14:30-14:55	90 Soft Computation of Extreme Rainfall Prediction Based on Block
		Maxima Data Representation - Hasbi Yasin; Arief Rachman Hakim; Budi
	Doom O. (Ch.	Warsito; Rukun Santoso
		air: Lilis Suryani)
	14:00-14:25	65 Analysis of Laplace Transforms on String-Beam Model - Lilis Suryani
	14:30-14:55	98 Review Properties Solutions the Mathematical Models of Transition Time Traffic Congestion - Zahrul Jannah Nur Rochim; Hartono
	Room 9: (Cha	air: Akik Hidayat)
	14:00-14:25	87 Analysis of execution time, memory and CPU usage on AES
		cryptography operation mode - Akik Hidayat; khairil A Azhari; Deni
		Setiana; Rudi Rosadi
	14:30-14:55	3 Mathematics Model Construction of the Law of Mass to Reduce Traffic
14:00 - 15:00	Hands-on W	Levels in Indonesia - Prihantini orkshops (GC stands for calculator workshops; CW stands for computer
17.00 - 13.00	workshops)	or Kanopa (de atanua for carculator workshops, Gw Stalius for computer
		1575 ClassPad.net: A new online environment for doing and learning
		Barry Kissane
	-	ter Room 1) 21618 Discovering the online freeware Cabri Express-Jean-
	Jacques Daha	n, Jean-Marie Laborde

15:00-15:30	Tea Break	
15:30-16:25	Parallel Session I. Presentations (Each contributed paper presentation slot is 25 minutes, unless otherwise specified. Please allow 3 minutes for Q&A, and 2 minutes for changeover)	
	Room 1: (Chair: MAXIMA ACELAJADO)	
	15:30-15:55 21612 Effects of the Traditional Flipped and the In-Class In Classroom Models on the Students' Performance in Geomy Comparative Analysis- MAXIMA ACELAJADO, MIGUEL PUT 16:00-16:25 21613 Blended Learning Station-Rotation Model: Effects of the Traditional Flipped and the In-Class In Class I	etry: A NONGBAYAN
	Students' Performance in and Attitude Toward Mathemat ACELAJADO, MARIANNE MONDRAGON	
	Room 2: (Chair Chandra Sri Ubayanti:)	
	15:30-15:55 21631 How To Increase Lower Order Thinking Skills To F Thinking Skills Through Modifying Problems Using The fx Scientific Calculator- Chandra Sri Ubayanti	-
	16:00-16:25 92 The development of learning trajectory using spinner l facilitate students' sense of probability - Nila Mareta Muro	
	Room 3: (Chair Yerizon:)	
	15:30-15:55 111 Practicality of APOS-Calculus Worksheet to Improve S Mathematical Communication Ability - Yerizon; Armiati	Student's
	16:00-16:25 15 Mathematics learning video: practical or not? - Vidiya	Rachmawati
	Room 4: (Chair Ayundyah Kesumawati:)	
	15:30-15:55 96 Implementation Interactive Learning for MOOC Initiation Student Centre Learning - Ayundyah Kesumawati	on Based on
	16:00-16:25 110 Implementation of Discovery Learning and Adapted S Learning Outcome - Arum Handini Primandari; Dina Tri U	•
	Room 5: (Chair Shinta Metikasari:)	
	15:30-15:55 57 Mathematics Learning Difficulties of Slow Learners on Metikasari	A Circle - Shinta
	16:00-16:25 85 How Is Students Error Analysis of Working About Pyth Problems? - Rospala Hanisah Yukti Sari, Dhoriva Urwatul Retnawati	J
	Room 6: (Chair Ratnah Lestary:)	
	15:30-15:55 50 Analysis of Students' Mathematical Reasoning Ability i Problems Solving Based on SOLO Taxonomy - Ratnah Lest Rustanto Rahardi	tary; Subanji;
	16:00-16:25 32 Students' Ability of Mathematical Problem-Solving Bas Taxonomy - Dimas Candra Saputra, Heri Retnawati	ed on SOLO
	Room 7: (Chair Kezia N. P. Prasetia:)	
	15:30-15:55 84 Modeling the returns volatility using GARCH (1,1) modernations - Kezia N. P. Prasetia; Rebecca Rorimpano Nugroho; Bambang Susanto	dey; Didit B.
	16:00-16:25 13 Utilizing a triangular fuzzy chain-ladder in claims reser Indonesian general insurance - Mujiati Dwi Kartikasari	ving of
	Room 8: (Chair Musthofa:)	

	15:30-15:55	104 Permutation in De Bruijn Sequence - Musthofa
	16:00-16:25	107 Modules and Their Endomorphism Rings - Hery Susanto; Santi Irawati; Indriati Nurul Hidayah; Irawati
	Room 9: (Cha	air Musthofa:)
	15:30-15:55	6 Biometric Patterns of Eye Iris by Using Hidden Markov Model - Nur Hadi Waryanto, M.Eng
		61 Stationary distribution of the non-homogen QBD processes via successive lumping method - Dwi Ertiningsih
15:30 - 16:25	Hands-on W workshops)	Yorkshops (GC stands for calculator workshops; CW stands for computer
	(GC Room) Kissane	21573 Using a Graphics Calculator for Learning Mathematics- Barry

09:00-17:00	Exhibitions
18:30-21:00	Conference Dinner and Culture Night

November 22, 2018 (Thursday) 7:30-8:30 Registration: 8:30-9:20 Plenary Speech 2 FMIPA Seminar Room 1: Chair: Barry Kissane Mathematical walks with mobile technology- Ron Lancaster

9:30-10:00 Tea Break

9:30-10:00 Tea I	вгеак	
10:00-10:50 Invi	ted Speeches	
10:00-10:50	21662 Exploid Graham Supin Invited Speal Creating a Syn STEM Teachin	ker 3: FMIPA Seminar Room 1: (Chair: Jean-Jacques DAHAN) ting Excel's Data Table Creatively in the Study of Mathematics - ri and Deane Arganbright ker 4: FMIPA Seminar Room 2: (Chair: Haitham S. SOLH) 21642 mbiotic Relationship between Epistemology of Combinatorics and ng Process- Haslinda Ibrahim
11:00-12:00	is 25 minutes and 2 minut	sion IV. Presentations (Each contributed paper presentation slot s, unless otherwise specified. Please allow 3 minutes for Q&A, tes for changeover)
	Room 1: (Cha	air: Ika Wulandari)
	11:00-11:25	21604 Overcoming Identified Learning Difficulties in Trigonometry Using Casio Classwiz fx-991EX- Ika Wulandari, Triana Harmini, Siti Suprihatiningsih
	11:30-11:55	21630 Integration of Classwiz Calculator to Deliver Hots Concepts of Mathematics Learning in Indonesian Senior High School- Khairuddin Budiman
	Room 2: (Cha	air: Russel Carlson)
	11:00-11:25	21625 Improving Student Learning Outcomes by Using an Applet in Class- Russel Carlson
	11:30-11:55	21655 Professional Development for Mathematics Teachers: Using a New Hypermedia Video-Case Tool- Hang Chen, Jian-sheng Bao
	Room 3: (Cha	air: Widuri Asmaranti)
	11:00-11:25	76 YouTube's implementation of students' reasoning abilities - Widuri Asmaranti
	11:30-11:55	30 Student's Critical Thinking Ability Development in Learning - Sehatta Saragih
	Room 4: (Cha	air: Mukhlas Triono)
	11:00-11:25	103 Validity Assessment of a Multimedia Based on Cognitive Load Theory for Undergraduate Plane Geometry Learning - Mukhlas Triono; Endah Retnowati
	11:30-11:55	51 Improving Mathematical Beliefs of Pre-service Teacher through Valsiner Zone Learning - Sri Tirto Madawistama
	Room 5: (Cha	air: Rospala Hanisah Yukti Sari)
	11:00-11:25	86 Emotional Intellegence: How Important to Develop It? - Rospala Hanisah Yukti Sari, Dhoriva Urwatul Wutsqa, Heri Retnawati
	11:30-11:55	46 Mathematic Learning Outcomes in Geometry Viewed From Spatial Intelligence - Indah Werdiningsih

Room	Room 6: (Chair: Irham Baskoro)		
11:00-1	7 0		
	Mathematics Problems Involving Higher Order Thinking Skills -		
11.00	Irham Baskoro, Heri Retnawati		
11:30-2	9 , 8		
_	Student - Dessy Puspitasari Rusdiana		
Room '	7: (Chair: Sugito)		
11:00-1	11:25 89 Rainfall and Wave Height Prediction in Semarang City Using		
	Vector Autoregressive Neural Network (VAR-NN) Methods - Sugito,		
	Arief Rachman Hakim, Hasbi Yasin, Mustafid, Diah Safitri		
11:30-1	11:55 88 Application of SARIMA model on rainfall forecasts as an effort to		
	optimize agriculture production in Sleman, Yogyakarta - Alfazrin		
	Banapon ; Intan Ramadhani ; Dina Tri Utari		
Room	Room 8: (Chair: Hj Epon Nur'aeni L)		
11:00-1	11:25 66 Didactical Design of the Area of Triangles Based on Dam-daman		
	Traditional Games in Primary School - Hj Epon Nur'aeni L		
11:30-2	11:55 100 Construction of Dandelin Sphere on Definition of Conics using		
	GeoGebra Classic 5 - Naela Faza Fariha; Himmawati Puji Lestari		
Room	Room 9: (Chair: Nikenasih Binatari)		
11:00-2	11:25 109 Multiple Scale Method in Speed-Gradient Model with		
	Perturbations – Nikenasih Binatari		
11:30-1	11:55 80 Application of Nash Equilibrium to Determine Economic Order		
	Quantity of A Continuous Review of Probabilistic Manufacturer-		
	Retailer Supply Chain Model for Imperfect Quantity - Rubono		
	Setiawan		
11:00-12:00 Hands	on Workshops (GC stands for calculator workshops; CW stands for		
compu	ter workshops)		
(GC Ro	om -Laboratory Room) 21649 Posing Powerful Questions by Exploring		
World	Flag-Ron Lancaster		
(CW Co	(CW Computer Room 2) 21661 Eye-Catching Mathematical Graphics with Excel-		
Deane A	Deane Arganbright, Graham Supiri		

12:00-13:00 Lunc	ch Break		
13:00-13:50	Invited Speaker 5: FMIPA Seminar Room 1:		
	(Chair: Deane ARGANBRIGHT) 21654		
	An Expert Approach of the Different Ways to Use the New Cabri and the Richness		
	of its Connections with the Online Freeware Cabri Express-Jean-Jacques Dahan		
	Invited Speaker 6: FMIPA Seminar Room 2:		
	(Chair: Guillermo DAVILA-RASCON) 21599		
	Computational Thinking in the Mathematics Classroom-Jonaki Ghosh		
14:00-15:00	Parallel Session I. Presentations (Each contributed paper presentation slot is		
	25 minutes, unless otherwise specified. Please allow 3 minutes for Q&A, and		
	2 minutes for changeover)		
	Room 1: (Chair: Leslie Chandrakantha)		
	14:00-14:25 21620 Simulating Confidence Intervals for Mean and Variance using		
	Real Data in R Programming Environment- Leslie Chandrakantha		

14:30-14:55	21627 Empirical Research on Mathematical Inquiry Based Dynamic Software in the Lesson Study Training- Li HongYun, ChunLan Wu		
Room 2: (Ch	Room 2: (Chair: Mega Nur Prabawati)		
14:00-14:25	45 The Integration Of Mathematical Character Values In Junior High School Through Problem Based Learning with Heuristic Strategy - Mega Nur Prabawati		
14:30-14:55	94 Learning mathematics from the erroneous example in the individual and collaborative setting: is it effective for facilitating students' mathematical disposition? - Ibnu Rafi; Wahyu Setyaningrum		
Room 3: (Cha	air: Joko Purnomo)		
14:00-14:25	2 Readiness of ICT Literacy High school math teacher Toward Learning with a Heutagogical Approach - Joko Purnomo, Herman Dwi Surjono		
14:30-14:55	72 Didactical Design of Square Circumference based on Petak Umpet Traditional Game in Elementary School - Hj. Epon Nur'aeni; Lia Oktaviani; Ika Fitri Apriani		
Room 4: (Ch	air: Kuswari Hernawati)		
14:00-14:25	1 Improving Trigonometry Learning Motivation Using Geogebra- Assisted Guided Discovery Student Worksheet (GDSW) – Kuswari Hernawati; Herman Dwi Surjono		
14:30-14:55	81 Implementation Of Cooperative Learning Type Number Head Together (NHT) To Improve Learning Independence Of 7thClass Students In SMP Negeri 1 Siak Hulu - Astri Wahyuni, M.Pd		
Room 5: (Ch	air: Hari Purnomo Susanto)		
14:00-14:25	69 The Analysis of Correlation between Students' Anxiety and Positive Attitudes toward Mathematic Using fuzzy Interval data and fuzzy correlation - Hari Purnomo Susanto		
14:30-14:55	25 Learning Algebra: Being a Challenge for Students in The Early Grade - Trisylia Ida Pramesti		
Room 6: (Ch	air: Nita Delima)		
	•		
14:00-14:25	11 Students' Mathematics Self-Concept and Their Learning Style - Nita Delima		
14:00-14:25 14:30-14:55	11 Students' Mathematics Self-Concept and Their Learning Style -		
14:30-14:55	11 Students' Mathematics Self-Concept and Their Learning Style - Nita Delima 21 The Urgency of Representational Flexibility in Mathematics		
14:30-14:55	11 Students' Mathematics Self-Concept and Their Learning Style - Nita Delima 21 The Urgency of Representational Flexibility in Mathematics Learning - Metia Novianti, Heri Retnawati		
14:30-14:55 Room 7: (Ch	11 Students' Mathematics Self-Concept and Their Learning Style - Nita Delima 21 The Urgency of Representational Flexibility in Mathematics Learning - Metia Novianti, Heri Retnawati air: Dina Tri Utari) 70 The Comparison of K-Means and K-Medoids Methods in Clustering of Disaster-Prone Areas in East Kutai Regency in 2017 -		
14:30-14:55 Room 7: (Chi 14:00-14:25 14:30-14:55	11 Students' Mathematics Self-Concept and Their Learning Style - Nita Delima 21 The Urgency of Representational Flexibility in Mathematics Learning - Metia Novianti, Heri Retnawati air: Dina Tri Utari) 70 The Comparison of K-Means and K-Medoids Methods in Clustering of Disaster-Prone Areas in East Kutai Regency in 2017 - Dina Tri Utari; Aulia Sholehah Putri Cesar 14 The Analysis of Mutual Funds Performance Model Accuracy - Siti		
14:30-14:55 Room 7: (Chi 14:00-14:25 14:30-14:55	11 Students' Mathematics Self-Concept and Their Learning Style - Nita Delima 21 The Urgency of Representational Flexibility in Mathematics Learning - Metia Novianti, Heri Retnawati air: Dina Tri Utari) 70 The Comparison of K-Means and K-Medoids Methods in Clustering of Disaster-Prone Areas in East Kutai Regency in 2017 - Dina Tri Utari; Aulia Sholehah Putri Cesar 14 The Analysis of Mutual Funds Performance Model Accuracy - Siti Samsiyah Purwaningsih		
14:30-14:55 Room 7: (Ch. 14:00-14:25 14:30-14:55 Room 8: (Ch.	11 Students' Mathematics Self-Concept and Their Learning Style - Nita Delima 21 The Urgency of Representational Flexibility in Mathematics Learning - Metia Novianti, Heri Retnawati air: Dina Tri Utari) 70 The Comparison of K-Means and K-Medoids Methods in Clustering of Disaster-Prone Areas in East Kutai Regency in 2017 - Dina Tri Utari; Aulia Sholehah Putri Cesar 14 The Analysis of Mutual Funds Performance Model Accuracy - Siti Samsiyah Purwaningsih air: Heri Retnawati) 37 Learning Obstacles among Indonesian Eighth Graders on		

	14:00-14:25	97 The Improvement Construction of Weighting Method using Rating Scale and FANP – Sri Andayani	
	14:30-14:55	78 Optimal Tracking Control Problem Of Multiple Dubin's Car System With Tracking Error Dynamics - Miswanto	
14:00 - 15:00	Hands-on W	orkshops (GC stands for calculator workshops; CW stands for rkshops)	
	-	boratory Room 1) 21652 Explore, Discover, Develop (ExDiD): Inquisitive Mind- Haslinda Ibrahim	
	-	Advanced Scientific Calculator- Barry Kissane	
15:00-15:30	Tea Break		
15:30-16:30	Parallel Session I. Presentations (Each contributed paper presentation slot is 25 minutes, unless otherwise specified. Please allow 3 minutes for Q&A, and 2 minutes for changeover)		
	Room 1: (Cha	air: Ambreen Zehra)	
	15:30-15:55	21626 Misconceptions of Differential and Integration Technique among Engineering Students: A Case Study- Sarwar Jahan Abbasi, Ambreen Zehra	
	16:00-16:25	82 Implementation of Numbered Heads Together (NHT) Cooperative Learning to Improve Mathematical Communication Ability of Class VIII Mts YKWI Pekanbaru - Putri Wahyuni	
	Room 2: (Chair: Rahma Hayati)		
	15:30-15:55	35 Prior Knowledge Misconception of Mathematics Middle School Students: Teachers' Difficulties and Strategies - Rahma Hayati, Heri Retnawati	
	16:00-16:25	79 Implementation Interactive Learning for MOOC Initiation Based on Student Centre Learning - Ayundyah Kesumawati	
	Room 3: (Cha	air: Syukrul Hamdi)	
	15:30-15:55	55 Team Teaching Collaborative Learning Model for Statistic Subject at Language Department - Syukrul Hamdi	
	16:00-16:25	36 Profile of Students' Mathematics Anxiety - Luthfi Nur Azizah, Ali Mahmudi, Heri Retnawwati	
	Room 4: (Cha	air: Nitta Puspitasari)	
	15:30-15:55	53 Improving of Students' Mathematical Problems Posing Ability through Metacognitive Learning - Nitta Puspitasari	
	16:00-16:25	34 Investigation of Students' Number Sense in Term of Fraction - Maghfirah, Ali Mahmudi, Heri Retnawati	
	Room 5: (Cha	nir: Nani Ratnaningsih)	
	15:30-15:55	59 Student's Mathematical Creative Thinking Process Based on Stages Wallas and Personality Types - Nani Ratnaningsih	
	16:00-16:25	19 Metacognitive awareness: how it affects mathematical problem-solving process - Rahmi Puspita Arum, Heri Retnawati	
	Room 6: (Cha	air: Elsa Susanti)	
	15:30-15:55	58 An Analysis Mathematical Problem Solving and Mathematical Critical Thinking of Junior High School Students - Elsa Susanti; Hartono	

	16:00-16:25	41 Students' Mathematical Connection in Solving Real-world Problems - Andi Gusmaulia Eka Putri, Heri Retnawati, Dhoriva Urwatul Wutsqa
	Room 7: (Chair	r: Rosita Kusumawati)
	15:30-15:55	112 Comparison Performance of Naive Bayes Classifier and Support Vector Machine Algorithm for Twitter's Classification of Tokopedia Services - Rosita Kusumawati, Afrida Dzul A, and Putri Anjaswati P
	16:00-16:25	8 Comparison of chain-ladder, Bornhuetter-Ferguson, and Benktander-Hovinen method for individual claims reserving - Mujiati Dwi Kartikasari
	Room 8: (Chair	r: Angga Kristiyajati)
	15:30-15:55	27 Analysis of sixth graders' difficulties in solving mathematics word problems on whole numbers, fractions, and decimals - Ulivia Isnawati Kusuma, Heri Retnawati
	16:00-16:25	16 The Role of Proofs Without Words (PWWs) in Helping Students Understand the Cosine of the Sum - Angga Kristiyajati, Heri Retnawati, Ariyadi Wijaya
	Room 9: (Chair	r: Aditya Wisnugraha Sugiyarto)
	15:30-15:55	63 Prediction of Student Learning Achievement Based on Intelligence Quotient (IQ), Academic Potential Test (TPA), and Learning Motivation Using Mamdani Method Fuzzy Logic - Aditya Wisnugraha Sugiyarto
	16:00-16:25	12 Computer Assisted Learning on Aridity Disaster Learning Using SIMIA (Satellite Imagery for Modelling Index of Aridity) - Mila Chrismawati Paseleng; Sri Yulianto Joko Prasetyo; Kristoko Dwi Hartomo
15:30 - 16:30	Hands-on Wor computer work	kshops (GC stands for calculator workshops; CW stands for shops)
	mathematics us	oratory Room 1) 21639 Exploring concepts and applications of ing Casio teaching tools: Jonaki Ghosh
	•	Room 1) 21619 Modelling the Moebius strip with Cabri 3D- Jean- Jean-Marie Laborde
18:30-21:00 IPC 1	meeting	

November 23, 2018 (Friday)

7:30-8:30 Registration :		
8:30-9:20	Plenary Speech 3: FMIPA Seminar Room 1: Chair: Wei-Chi Yang	
	21651 Can Secondary School Mathematics Students Be Taught	
	Computational Thinking?-Weng Kin Ho	

9:30-10:00 Tea Break

10:00-10:50 Invited Speeches

10:00-10:50 Invited S	peeches	
	Invited Spea	ker 7: FMIPA Seminar Room 1:
10:00-10:50	(Chair: José	Antonio VALLEJO) 21632
	Synchronizat	ion of Chaos-Guillermo Davila-Rascon
	Invited Spea	ker 8: FMIPA Seminar Room 2:
	(Chair: Dean	e ARGANBRIGHT) 31001
	Using Dynam	ic Geometry Software in High School in Vietnam: The case of
	geometrical c	onstruction problems in space-Nguyen Chi Thanh
	Parallel Sess	ion IV. Presentations (Each contributed paper presentation
11:00-12:00	slot is 25 min	nutes, unless otherwise specified. Please allow 3 minutes for
	Q&A, and 2 minutes for changeover)	
	Room 1: (Ch	air: Yasuyuki Nakamura)
	11:00-11:25	21601 E-learning System with Computer Algebra based on
		JavaScript programming language- Takuya Kitamoto, Masataka
		Kaneko, Setsuo Takato
	11:30-11:55	21605 Improvement of the Usability of Figures in STACK by Use of
		CindyScript and CindyJS- Kenji Fukazawa, Yasuyuki Nakamura
	Room 2: (Cha	air: Ace Ceremonia)
	11:00-11:25	21570 Spaced Learning Strategy in Teaching Mathematics
		Ace Ceremonia and Remalyn Casem
	11:30-11:55	21663 The Mathematics Class Using the Tablet PCs- Tsutomu Ishii
	Room 3: (Cha	air: Muhammad Kamaluddin)
	11:00-11:25	33 Map of Influence in Discovery Learning on Students'
		Mathematics Learning Outcomes: A Systematic Literature Review
		- Muhammad Kamaluddin, Djamilah Bondan Widjajanti
	11:30-11:55	49 The Effectiveness of Metaphorical Thinking learning in Terms
		of Achievement, Problem Solving Skill, and Self-efficacy - Fitriani
	Room 4: (Cha	air: Mariana Ramelan)
	11:00-11:25	54 A comparative analysis of probability in JHS Indonesian and
		Singaporean mathematics textbooks from the perspective of
		mathematical creativity - Mariana Ramelan, Ariyadi Wijaya
	11:30-11:55	9 7 1
		pre-service mathematics teachers' - Puji Lestari
	Room 5: (Ch	
	11:00-11:25	68 The identification of students' didactic obstacles in learning
		fractions based on the form of the problems - Sugiman, Nila
		Mareta Murdiyani
	11:30-11:55	62 Content Analysis of HOTS in Mathematics National Exam -
		Arung Mega Ratna, Heri Retnawati

Room 6: (Cha	nir: Salmaini Safitri Syam)
11:00-11:25	47 Comparison of Modeling Task in Indonesian and Singapore
	Textbooks - Salmaini Safitri Syam, Ariyadi Wijaya, Heri Retnawati
11:30-11:55	
Room 7: (Cha	nir: Dhoriva Urwatul Wutsqa)
11:00-11:25	95 Welfare Mapping of Region in Indonesia based on Health and
	Nutrition Indicators using Self Organizing Mapping (SOM) Method
	- Dhoriva Urwatul Wutsqa; Kismiantini; Retno Subekti
11:30-11:55	, , ,
	log-GARCH models for returns volatility - Dini Kurniawati; Lam P.
	Panjaitan; Zaini Kholil; Didit B. Nugroho; Bambang Susanto; Leopoldus R. Sasongko
Room 8: (Cha	nir: Djamilah Bondan Widjajanti)
11:00-11:25	74 Making mathematics classes more humanistic - Djamilah
	Bondan Widjajanti
11:30-11:55	56 Ing Ngarsa Sung Tuladha Learning Model - Kartini Hutagaol;
	Louise M. Siaja; Debora Chaterin Simanjuntak
Room 9: (Cha	nir:)
11:00-11:25	108 Coffee prices and its derivatives : Evidence from the
	Indonesian market - Ade Latip;Nikenasih Binatari
11:30-11:55	

11:00-12:00	Hands-on Workshops (GC stands for calculator workshops; CW stands for	
	computer workshops)	
	(GC Room) 21650 Experimenting with equations and their graphs-Ron	
	Lancaster	
	(CW1 Computer Room 1) 21640 (Part 1) Image Processing with the CAS	
	Maxima-Guillermo Davila-Rascon, Jose Antonio Vallejo	

12:00-13:00 Lunc	ch Break
13:00-13:50	Invited Speaker 9: FMIPA Seminar Room 1: (Chair: Guillermo DAVILA-RASCON) 21641
	Correcting errors: putting elementary topology to work- Juan Medina & Jose A Vallejo
	Invited Speaker 10: FMIPA Seminar Room 2: (Chair: Haslinda Bt IBRAHIM)
	21634
	Friend or Foe: The Dangers of Dependence on Online Platforms for Conceptual
	Understanding- Haitham Solh
14:00-15:00	Parallel Session I. Presentations (Each contributed paper presentation slot
	is 25 minutes, unless otherwise specified. Please allow 3 minutes for Q&A,
	and 2 minutes for changeover)
	Room 1: (Chair: Rahul Mukherjee)
	14:00-14:25 21579 Order of Addition: Theory and Algorithms- Rahul
	Mukherjee

14:30-14:55 21585 Clustering Induced Binary Classification with Asymme Misclassification Cost- Uttam Kumar Sarkar Room 2: (Chair: Jeongwhan Choi)	etric
14:00-14:25 21582 A Mathematical and Experimental Studies of a Free Su Wave- Jeongwhan Choi, Sungha Yoon	rface
14:30-14:55 21660 Conjugacy Maps and Dynamics of a Family of Optimal Fourth-Order Multiple-Zero Finders- Young Hee Geum	
Room 3: (Chair: Heri Retnawati)	
14:00-14:25 42 Scaffolding for International Students in Statistics Lecture Heri Retnawati	-
14:30-14:55 77 Emotional Intellegence: How Important to Develop It? - Rospala Hanisah Yukti Sari, Dhoriva Urwatul Wutsqa, Heri Retnawati	
Room 4: (Chair: Kholifatun Nur Rokhmah)	
14:00-14:25 26 Mathematical resilience: Is that affecting the students' mathematics achievement? - Kholifatun Nur Rokhmah, Heri Retnawati	
14:30-14:55 43 Open Ended Approach and Group Discussion Learning : an Exploration of Mathematical Problem Solving Skill - Nelly Rhosyida;Trisniawati;Flora Grace Putrianti	1
Room 5: (Chair: Auliaul Fitrah Samsuddin)	
14:00-14:25 23 Students' Difficulties in Solving Rich-Tasks: Mathematical Etude on Practice - Auliaul Fitrah Samsuddin, Heri Retnawati	
14:30-14:55 93 Development of Multimedia Learning Based on Contextua Approach on Triangles and Quadrilaterals - Doni Setiyo Ardiyanto;Ali Mahmudi	l
Room 6: (Chair: Irwan)	
14:00-14:25 101 The Development of Mathematics Learning Tools E on Model Eliciting Activities (MEAS) Approach to Important Concepts Understanding Skill of Students of Grade VII Junior High School - Irwan, Ahmad Fauzan 14:30-14:55 20 SKTM and Achievement Based Students' Learning Outcom	ove
There Any Different? - Yustine Maulina, Heri Retnawati Room 7: (Chair: Syarifah Inayati)	
14:00-14:25 9 Use of second order Markov chains to analyse the availabili	ty of
shampoo product marketing (A case study of Dove shampoo Pamella 1 supermarket in Yogyakarta) - Syarifah Inayati	· .
14:30-14:55 71 Comparison of Influence between Geographical and Popul Factor against Flood in Indonesia in 2017 using Spatial Regre - Dina Tri Utari; Wahyu Pratama Jati	
Room 8: (Chair: Louise M Saija)	
14:00-14:25 105 Undergraduate students' motivation and self-regulated	a
14:00-14:25 105 Undergraduate students' motivation and self-regulated learning in learning statistics: Female vs male - Louise M Saija	

	14:00-14:25	7 Better Bootstrap Confidence Intervals for Parameter
		estimators of Kriging Model Based on Semiparametric
		Bootstrapping - Elmanani Simamora
	14:30-14:55	102 Land Measurement by Utilizing Bootstrap Polygon Approach
		Method Based on Utilizing Global Administrative Area (GADM)
		Data Base - Adi Setiawan; Eko Sediyono
14:00 - 15:00		Yorkshops (GC stands for calculator workshops; CW stands for
	computer wo	* *
	•	aboratory Room 1) 21653 Using Technology to Enhance nceptual Understanding of Transcendental Functions-Haitham Solh
		aboratory Room 2) 21658 Teaching Computational Thinking to
	-	hool Mathematics Students- Weng Kin Ho
15:00-	Tea Breaks	noor radiomatics students. Weng run 110
15:30		
15:30-16:30	Parallal Sacc	tion I. Presentations (Each contributed paper presentation slot
15.50-10.50		s, unless otherwise specified. Please allow 3 minutes for Q&A,
		es for changeover)
		air: SAIBAL CHATTOPADHYAY)
	15:30-15:55	21586 On estimation of Gini Index for grouped data using
	13:30-13:33	asymmetric loss- SAIBAL CHATTOPADHYAY
	16:00-16:25	21602 Data Simulation with Markov Chain Monte Carlo, Gibbs
		Sampling, and Bayes (Beta-Binomial) Methods as the Parameter
		Estimations of Spatial Bivariate Probit Regression Model- Dewi
		Retno Sari Saputro, Yuanita Kusuma Wardani, Shaifuddin Zuhdi,
	D	Purnami Widyaningsih
		air: Elli Susilawati)
	15:30-15:55	60 Research Action Class to Increase Self-Efficacy on Mathematics Student Grade VII of Senior High School Hamong Putera using Inkuiri Approach - Elli Susilawati
	16:00-16:25	40 Is it difficult to teach higher order thinking skills? - Ilma Rizki
		Nur Afifah, Heri Retnawati
	Room 3: (Cha	air:)
	15:30-15:55	106 Application of HAM for Solving The Elections Model - Benny
		Yong
	16:00-16:25	5 Mathematical Model Construction of Mass Conservation Law's
		Derivative to Reduce the Traffic Congestion in Indonesia - Glagah
	D 4 (0)	Eskacakra Setyowisnu
	Room 4: (Cha	
	15:30-15:55	TBA
	16:00-16:25	TBA
	Room 5: (Cha	air:)
		•
	15:30-15:55	TBA
	16:00-16:25	ТВА

	Room 6: (Cha	nir:)
	15:30-15:55	ТВА
	16:00-16:25	TBA
	Room 7: (Cha	nir:)
	15:30-15:55	ТВА
	16:00-16:25	ТВА
	Room 8: (Cha	ir:)
	15:30-15:55	ТВА
	16:00-16:25	TBA
	Room 9: (Cha	ir:)
	15:30-15:55	TBA
	16:00-16:25	TBA
15:30 - 16:30	Hands-on Wo	orkshops (GC stands for calculator workshops; CW stands for rkshops)
	•	er Room 1) 21640 (Part 2) Image Processing with the CAS Maxima- villa-Rascon, Jose Antonio Vallejo
	•	er Room 2) 21598 STACK: an online assessment system for
		Yasuyuki Nakamura, Yuko Ichikawa, Takahiro Nakahara, Yoshinori uro Higuchi, Kentaro Yoshitomi

18:30- Social and free time

Novembe	er 24, 2018 (Saturday)
7:30-8:30	Registration
8:30-9:30	Plenary Speech 4: FMIPA Seminar Room 1: (Chair: Dr. Hartono)
	TBA –Salang Musikasuwan, Ph.D
9:30-10:00	Tea Break
10:00-10:50	Invited Speaker 11: FMIPA Seminar Room 1: (Chair: TBA)
	Using Euler Maths Toolbox (EMT) for Teaching Numerical Methods, A Migration from
	Commercial (MATLAB) to Free Software – Sahid, MSc.
10:00 -	Hands-on Workshops (GC stands for calculator workshops; CW stands for computer
11:00	workshops)
	(GC Room -FMIPA Seminar Room 2) 21584 Teaching Statistics and Visualization with QR
	Codes- Wei Ching Quek
11:00-	Closing Ceremony FMIPA Seminar Room 1
12:00	
12:00-13:00	Lunch and Farewell