



INTERNATIONAL CONFERENCE ON MATHEMATICS AND LEARNING RESEARCH

MATHEMATICS EDUCATION DEPARTMENT
UNIVERSITAS MUHAMMADIYAH SURAKARTA

Phone. (0271) 717417, ext. 344

Web: <http://icomer.ums.ac.id> Email: icomer@ums.ac.id

List of Parallel Presenter Room: 1

| No | Presenter | Institution | Paper Title | Link |
|----|-------------------------------|------------------------------------|--|---|
| 1. | Dr. Abd Qohar | Universitas Negeri Malang | Student Activeness in Mathematics Learning Using Comics on Social Arithmetic Topics | https://youtu.be/WomL6t7-FBE |
| 2. | Dr. Abd Qohar | Universitas Negeri Malang | Development of Learning Media Based on Geogebra Software on the Topic of Trigonometric Ratios | https://youtu.be/LhXY2aUNApM |
| 3. | Dr. Wasilatul Murtafiah, M.Pd | Universitas PGRI Madiun | Profile of Student Problem-Solving Ability Based on Ethnomathematics of Ngawi Culture on Geometry Topics | https://youtu.be/UxIJ6z2VWbo |
| 4. | Dr. Wasilatul Murtafiah, M.Pd | Universitas PGRI Madiun | Towards a Good Problem Solver through Decision Making Model of Teaching: A Needs Analysis | https://youtu.be/lhmS0yXs-f8 |
| 5. | Dian Cahyawati | Universitas Sriwijaya | Visualization of Similarity Characteristics among Regions in Ogan Ilir Regency, South Sumatera Province Based on the Covid-19 Category | https://youtu.be/rFS8ZzkNYq8 |
| 6. | Dwi Fadilla | Universitas Sriwijaya | | |
| 7. | Annisa Swastika | Universitas Muhammadiyah Surakarta | Analysis of Student Difficulties In Completing Social Arithmetic Stories Assessed From Understanding The Concept | https://youtu.be/5JyDROhpVYY |



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List of Parallel Presenter Room: 2

| No | Presenter | Institution | Paper Title | Link |
|----|----------------------------|------------------------------------|---|---|
| 1. | Rahma Wahyu | Universitas Islam Raden Rahmat | Integrated Managements Statistics Textbooks with R Language | https://youtu.be/SSXLdDroBHc |
| 2. | Rahma Wahyu | Universitas Islam Raden Rahmat | Using R language in Teaching Statistics | https://www.youtube.com/watch?v=hpgeED3TU48 |
| 3. | Darmadi | Universitas PGRI Madiun | The Level of Criticality and Visual Intelligence of Prospective Mathematics Teacher Students in Designing STEM-based Learning | https://www.youtube.com/watch?v=cehYeqH-8LA |
| 4. | Arie Purwa Kusuma | STKIP Kusumanegara | Student's Critical Thinking Ability in Algebra Application Problems Through Learning Model Project Based Learning Matlab-Assisted | https://www.youtube.com/watch?v=fgSbJ0jgW2I |
| 5. | Arie Purwa Kusuma | STKIP Kusumanegara | Systematic Literature Review: Algebra Thinking Process in Mathematics Learning | https://www.youtube.com/watch?v=Lm0jKbJ7ODM |
| 6. | Rita Pramujiyanti Khotimah | Universitas Muhammadiyah Surakarta | The Development of STEM based Discovery Learning Module in Differential Equations: One-to-One Evaluation | https://youtu.be/a6dlIPwhTJw |



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List of Parallel Presenter Room: 3

| No | Presenter | Institution | Paper Title | Link |
|----|--------------------------------|------------------------------------|--|---|
| 1. | Nurina Kurniasari Rahmawati | STKIP Kusumanegara | Student Problem Solving Ability in Derivative Applications (Maximum and Minimum) Geogebra Assisted | https://youtu.be/aWjk839m-4s |
| 2. | Nurina Kurniasari Rahmawati | STKIP Kusumanegara | Literature Review: Numerical Literacy in Mathematics Problem Solving | https://youtu.be/eJqPEkhJ7tQ |
| 3. | Susilahudin Putrawangsa | Universitas Islam Negeri Mataram | The Didactic Use of Spatial Tools: A Case of Number Line in Arithmetic | https://youtu.be/dBDMtY1sLoM |
| 4. | Dede Suratman | Tanjungpura University | Subject Specific Pedagogic: Problem Solving Skill and Character Pre Teacher Mathematics in Indonesia | https://youtu.be/vqydJEuTc7A |
| 5. | Yudi Darma | IKIP PGRI Pontianak | | |
| 6. | Arif Rakhman | Universitas Negeri Yogyakarta | Character Education in Online Mathematics Learning during The Covid-19 Pandemic | https://youtu.be/CJgI794qlSA |
| 7. | Dr. Muhammad Noor Kholid, M.Pd | Universitas Muhammadiyah Surakarta | What are the pupils' challenges in implementing reflective thinking for problem-solving? | https://youtu.be/W59h26TIq0E |



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List of Parallel Presenter Room: 4

| No | Presenter | Institution | Paper Title | Link |
|----|---------------------|-----------------------------------|---|---|
| 1. | Samsul Arifin | Universitas Bina Nusantara | Application of Model-Eliciting Activities (Meas) Approach to Mathematical Problem Solving Capabilities | https://youtu.be/M-vLX_4aIk8 |
| 2. | Samsul Arifin | Universitas Bina Nusantara | Teachers' Performance Determinants (Quantitative Approach to The Middle School Teacher Performance in Salatiga) | https://youtu.be/qaJBcF2sowQ |
| 3. | Samsul Arifin | Universitas Bina Nusantara | Increasing the Competence of Junior High School Teachers in Bogor Regency | https://youtu.be/zQuknxa4zHo |
| 4. | Surya Sari Faradiba | Universitas Islam Malang | Actual and Partial Vandalism: Metacognitive Impairment in Mathematics Problem-Solving | https://youtu.be/gD8I8tSJHG8 |
| 5. | Andriyani | Universitas Ahmad Dahlan | The Effectiveness Application of Learning Model with Augmented Reality on Deaf Student's Geometry Learning Outcomes | https://youtu.be/OFrk63vNdfY |
| 6. | Sriyanti Mustafa | Universitas Muhammadiyah Parepare | Gesture Learning Mathematics, Spontaneous? | https://youtu.be/lifX8SLPiBU |



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**List of Parallel Presenter
Room: 5**

| No | Presenter | Institution | Paper Title | Link |
|----|--------------------------|------------------------------------|---|---|
| 1. | Wiwin Sri Hidayati | STKIP PGRI JOMBANG | Describing Soft Skills Attributes of Senior High School Teacher in Mathematics Learning | https://youtu.be/EGS5LKpwXeE |
| 2. | Jauhara Dian Nurul Iffah | STKIP PGRI JOMBANG | | |
| 3. | Muhammad Farhan Rafi | STKIP PGRI JOMBANG | | |
| 4. | Encep Iman Hadi Sunarya | Universitas Negeri Jakarta | The Effect of Inquiry Learning Model and Scientific Attitudes on Divergent Thinking Ability in The Environmental Education Course | https://youtu.be/KG9iSVzrmD4 |
| 5. | Yurniwati | Universitas Negeri Jakarta | Comparing Virtual and Concrete Manipulatives on 5th Grades Students in Fraction Performance | https://youtu.be/MiBfS0zREXU |
| 6. | Henry Suryo Bintoro | Universitas Negeri Semarang | Students Mathematical Thinking Process with Symbolic Representation in Reconstructing Numerical Literacy Concepts | https://youtu.be/yBUqXX2sSdc |
| 7. | Enditias Pratiwi | Universitas Borneo Tarakan | Preservice Primary Teachers' Common Errors in Solving Mathematics Literacy Problems | https://youtu.be/6vQ6lDIITIA |
| 8. | Nida Sri Utami | Universitas Muhammadiyah Surakarta | Question Development of Pythagorean Subject in Junior High School Based on Cognitive Process and Context in Minimum Competency Assessment | https://youtu.be/k1F90b9IqoE |



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List of Parallel Presenter Room: 6

| No | Presenter | Institution | Paper Title | Link |
|----|--------------------------|-----------------------------------|---|---|
| 1. | Ariesta Kartika Sari | Universitas Trunojoyo Madura | Ethnomatematic study: cultural values and geometric concepts in the traditional tanean lanjang house in Madura – Indonesia | https://www.youtube.com/watch?v=TARVMqc4Tn0 |
| 2. | Veronika Fitri Rianasari | Sanata Dharma University | Indonesian Mathematics Teachers' Views on Distance Learning Barriers during the Early of Covid-19 Pandemic | https://www.youtube.com/watch?v=RkO1zcik8Nc |
| 3. | Hongki Julie | Sanata Dharma University | | |
| 4. | Maria Suci Apriani | Sanata Dharma University | | |
| 5. | Edy Saputra | IAIN Takengon | Implementation of Reflective Thinking Process Approach to Students' Mathematical Critical Thinking Ability | https://www.youtube.com/watch?v=_QVkyUN-pxw |
| 6. | Intan Rofi'ah | Universitas Sebelas Maret | The Development of Student's Worksheets Based on Problem to Improve Mathematical Reasoning Ability for 11st Grade in Senior High School 6 Surakarta | https://youtu.be/QCNQvicr1uU |
| 7. | Wahyuddin | Universitas Muhammadiyah Makassar | Student Affective Skill Level and Its Impact on Mathematics Learning Outcomes | https://www.youtube.com/watch?v=JFEYN0bBZLk |
| 8. | Jonathan Saputra | Politeknik Negeri Jakarta | The Effect of Applied Statistics and Distance Advisory towards Thesis Completion of Polytechnic Students in COVID-19 Pandemic Era | https://youtu.be/G8JYHxxIVVA |



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List of Parallel Presenter Room: 7

| No | Presenter | Institution | Paper Title | Link |
|----|--------------------------------|--|--|---|
| 1. | Jayanti, M.Pd | University PGRI Palembang and The College Doctoral UNSRI | Learning Numeration in the Context of Covid-19 Assisted by E-learning Merdeka Campus Prospective Elementary School Teachers at PGRI Palembang University | https://youtu.be/DgjUMwoWj0g |
| 2. | Fitriani Nur, S.Pd.I, M.Pd | Universitas Islam Negeri Alauddin Makassar | Development of Mathematics Module Based on The Contextual Approach of Algebraic Form Material | https://www.youtube.com/watch?v=d4jIbCKF2z8 |
| 3. | Andi Dian Angriani, S.Pd, M.Pd | Universitas Islam Negeri Alauddin Makassar | Developing Interactive Learning Media Based on Macromedia Flash Application on the Material of Polyhedron | https://www.youtube.com/watch?v=PJp_MAqtlDg |
| 4. | Lisnasari Andi Mattoliang | Universitas Islam Negeri Alauddin Makassar | | https://youtu.be/jSQOEKI_n7s |
| 5. | Megita Dwi Pamungkas | Universitas Tidar | Research trends on complex problem solving in mathematics education: a systematic review | https://youtu.be/f5BufnKaapQ |
| 6. | Abdul Aziz | Muhammadiyah University of Semarang | ETHNOMATHEMATICS 4.0 : Hypothetical Learning Trajectory in Making Mathematics Learning Videos Based on Indonesian Culture | https://www.youtube.com/watch?v=e7khdgk46XA |

List of Parallel Presenter



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Room: 8

| No | Presenter | Institution | Paper Title | Link |
|----|------------------|------------------------------------|---|---|
| 1. | Risma Gita | Universitas Negeri Semarang | The Development of STEAM-Integrated Textbook in Statistics Material | https://youtu.be/CkhVr4CQAI0 |
| 2. | Mohammad Asikin | Universitas Negeri Semarang | | |
| 3. | Endah Subekti | Universitas Muhammadiyah Surakarta | The Ability of Junior High School Students in Mathematical Reasoning Based on Open-Ended Number Pattern Content | https://youtu.be/wxm_SurhEps |
| 4. | URIP TISNGATI | STKIP PGRI Pacitan | Profile of student geometry skills in terms of mathematics anxiety | https://youtu.be/1AIA7bZfVGI |
| 5. | Sri Supiyati | Universitas Hamzanwadi | Students' Creative Thinking Ability through Learning Realistic Mathematic Education (RME) for Junior High School Students | https://www.youtube.com/watch?v=DwzxHsyDC00 |
| 6. | Shinta Wulandari | Universitas Borneo Tarakan | Development of Spatial Activities Book | https://youtu.be/iU96wque9dQ |



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List of Parallel Presenter Room: 9

| No | Presenter | Institution | Paper Title | Link |
|----|-----------------------------|------------------------------------|---|---|
| 1. | Friesca Pra Utami Dewi | Universitas Sanata Dharma | Hypothetical Learning Trajectory (HLT) to Build Understanding of Mathematics Education Students about What Problem Based Learning (PBL) is and How to Apply it to Learn Mathematics | https://youtu.be/3mbEcpMK_S0 |
| 2. | Francisca Yenuacrista Surya | Universitas Sanata Dharma | | |
| 3. | Wahidni Karimah Hinas | Universitas Muhammadiyah Surakarta | Utilization of School Web as Online Learning Media In Pandemic Era | https://youtu.be/I-fTEFRjdyE |
| 4. | Anton Prayitno | Universitas Wisnuwardhana | Learning in the Pandemic Period by Using an Android-Based Mathematical Comic Application on Cartesian Coordinate Material | https://www.youtube.com/watch?v=u0JGRiqVmo |
| 5. | Ali Asmar | Universitas Negeri Padang | Effect of Independent Student Learning on Problem Solving Using The Worksheet Geometry Based on PjBL | https://youtu.be/GtQvPW24WjU |
| 6. | Hafizah Delyana | Universitas Negeri Padang | | |
| 7. | Masduki | Pendidikan Matematika UMS | Students' Performance in Solving World Problem: Insight from Connection Ability | https://youtu.be/CEv1i5Qnr3o |



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List of Parallel Presenter
Room: 10

| No | Presenter | Institution | Paper Title | Link |
|----|--------------------------|--|---|---|
| 1. | Nurani, S.Pd, M.Pd | SMK Negeri 2 Sragen | Peningkatan Pemahaman Konseptual Matematis dan Hasil Belajar Matematika Siswa Melalui Pembelajaran Kontekstual dengan Market Place Activity (MPA) | https://youtu.be/aohSCjfQTBk |
| 2. | Mutia Lina Dewi | Politeknik Negeri Malang | Analysis Strategy Online Learning of Applied Mathematics at Civil Engineering | https://youtu.be/HwZkZ1rA1Og |
| 3. | Evi Riayuliatun | Universitas Muhammadiyah Surakarta | Students' Mathematical Critical Thinking Ability in Group Algebra Structure Course during the Covid-19 Pandemic | https://youtu.be/kYI7DA-kADU |
| 4. | Haris Wahyu Pamungkas | Universitas Muhammadiyah Surakarta | Mathematical Reasoning Ability of Junior High School Students during the Covid-19 Pandemic in Solving HOTS Questions for Circle Material | https://youtu.be/KVGv5teuIRI |
| 5. | Nanda Mudi Astuti | Universitas Muhammadiyah Surakarta | Error Analysis of Class VIII Students in Understanding Mathematics Problems in the PISA Model at MTS Terpadu Nurul Hidayah Tangen for the 2020/2021 Academic Year | https://youtu.be/ehoAPYb5YLA |



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**List of Parallel Presenter
Room: 11**

| No | Presenter | Institution | Paper Title | Link |
|----|-----------------------------|-----------------------------|--|---|
| 1. | Dr. Dewi Retno Sari Saputro | Universitas Sebelas Maret | Evaluation of Hybrid Algorithms (Constrain Base and Bound and Colapse) in building Bayesian Networks structures | https://drive.google.com/file/d/1dYKNfh1-lnk6gy74d-kJJ-61y_8gYvUm/view?usp=sharing |
| 2. | Pety Angelia Sherly | Universitas Negeri Malang | Elegant Labeling of the Web Graph Without Center $W_0(2,n)$ and $W_0(3,n)$ | https://youtu.be/t-3IwuiQbZY |
| 3. | Mutia Maharani | Universitas Sebelas Maret | Application of The Spline Cubic Nonparametric Regression Model to Human Development Index Data in Indonesia | https://youtu.be/azDsIZG7tps |
| 4. | Ade Susanti | Universitas Sebelas Maret | Clustering and Mapping of DHF in West Java with Purely Spatial Scan Statistic Analysis Using Discrete Poisson Model | https://youtu.be/m2R6VTYnHlg |
| 5. | Ayu Abbsarina Wahidiyanti | Universitas Sebelas Maret | Kriging with Semivariogram-Copula Gumbel to Predict the Incidence of Covid-19 Positive Case in DKI Jakarta Indonesia | https://youtu.be/3AR5GNF0GgU |
| 6. | Bait Imala | Universitas Negeri Malang | Vertex Equitable Labeling for Actinia Graph | https://youtu.be/mJPREOnMReY |
| 7. | Dear Michiko Mutiara Noor | Institut Teknologi Sumatera | Mathematical Model in a Liquid Heat Loss | |



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**List of Parallel Presenter
Room: 12**

| No | Presenter | Institution | Paper Title | Link |
|----|--|-----------------------------------|---|---|
| 1. | Nafisa Berliana Indah Pratiwi | Universitas Sebelas Maret | Logistic Smooth Transition Autoregressive Model Parameter Estimation Using Gauss Newton | https://youtu.be/tlIO8qfxbe8 |
| 2. | Nurul Aulia | Universitas Sebelas Maret | Error Correction Models in Data Inflation in Indonesia | https://www.youtube.com/watch?v=Pf3ccMz-xg8 |
| 3. | Ria Puan Adhitama | Universitas Sebelas Maret | Hill Climbing Algorithm for Bayesian Network Structure | https://youtu.be/SQ2YjnZwnHc |
| 4. | Maria Atik Sunarti Ekowati, ST., M.Kom | Surakarta Christian University | Development of Warehouse Data Models to Support JNE Delivery Services | https://www.youtube.com/watch?v=N37ENhLELmc |
| 5. | Djoko Untoro Suwarno, S.Si, M.T | Sanata Dharma University | Viasualisasi rectified sine waves and triggering angles on thyristor using Geogebra | https://youtu.be/TqcOZvy4p70 |
| 6. | Dhika Surya Pangestu | Universitas Padjajaran | Forecasting the Number of COVID-19 Active Cases in Indonesia Using the Multilayer Perceptron Feedforwards Neural Networks | https://www.youtube.com/watch?v=FULKJfVxnp0 |