



ORAL PRESENTATION AWARD

GROUP 3

สาขาวิชาคณิตศาสตร์ คณิตศาสตร์ ประยุกต์ สาขาวิชาสถิติ





CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

Kodchapon Deein and Kanyanat Buabang

for the Oral Presentation entitled

THE EXPECTED LOTTERY PRIZE AND THE ACCURACY OF TWO DIGITS LOTTERY NUMBER

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

Attaphol Pumila and Pongpun Julta

for the Oral Presentation entitled

ON ABSORB BE-ALGEBRAS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Natthanan Deenin and Nares Sawatraksa

for the Oral Presentation entitled

ON A PROBLEM OF PARTITIONS OF \mathbb{Z}_m WITH THE SAME REPRESENTATION FUNCTIONS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Ekkachai Laysirikul and Natthawarun Pinin

for the Oral Presentation entitled

THE NUMBERS OF NUMERICAL SEMIGROUPS $\{0\} \cup [a, b] \cup [c, d] \cup [e, \infty)$
WITH THE SAME FROBENIUS NUMBER

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Thanapa Phothiphon and Nares Sawatraksa

for the Oral Presentation entitled

REVERSE ORDER LAWS FOR THE (b, c) - INVERSE IN Γ -RING

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Supphachai Sonwai and Chakkrid Klin-eam

for the Oral Presentation entitled

$(1 + u)$ CONSTACYCLIC AND CYCLIC CODES OVER $\mathbb{F}_2[u]/\langle u^4 \rangle$

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof. Dr. Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Usanee Janthasuwan, Suparat Niwitpong and Sa-Aat Niwitpong

for the Oral Presentation entitled

STATISTICAL ESTIMATION FOR THE MEDIAN OF THE DELTA-LOGNORMAL DISTRIBUTION

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Natchaya Ratasukharom, Sa-Aat Niwitpong and Suparat Niwitpong

for the Oral Presentation entitled

CONFIDENCE INTERVALS FOR THE MEAN OF BIRNBAUM-SAUNDERS DISTRIBUTION

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Tippaporn Wangkeeree and Thipwan Kate-in

for the Oral Presentation entitled

THE SARIMA-ANN MODELS STUDY FOR FORECASTING THE NUMBER OF
DENGUE PATIENTS IN PHITSANULOK PROVINCE

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Pongsakorn Molsin and Orawich Kumphon

for the Oral Presentation entitled

FLOOD FORECASTING MODEL AT M.5 RASRI SALAI STATION

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Mallika Chanaphai and Thipwan Kate-intra

for the Oral Presentation entitled

THE PERFORMANCE COMPARISON OF CLASSIFICATION BY STATE OF BUSINESS
ABOUT CONSTRUCTION AND REAL ESTATE IN THAILAND

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Jeerawan Patcharaprakiti, Rattikan Jakkawan and Nopporn Patcharaprakiti

for the Oral Presentation entitled

OPTIMIZATION OF BATIK PRODUCTION USING THE QUICK SIMPLEX METHOD

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Chiraphon Aphirakmongkhon and Jeerawan Patcharaprakiti

for the Oral Presentation entitled

COMPARISON OF ALGORITHM PERFORMANCE FOR A FORECASTING INSURANCE PREMIUM
PAYMENT SUSPENSION DURING THE CONTRACT OF THE INSURED
BY USING THE MACHINE LEARNING TECHNIQUE

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

**Chiraphon Aphirakmongkhon, Wanlaya Keawcha,
Grienggrai Rajchakit and Jeerawan Patcharaprakiti**

for the Oral Presentation entitled

**A CLASSIFICATION OF BLACK MOLD IMAGE OF LONGAN LEAVES WITH DEEP LEARNING
TECHNIQUES BASED ON CONVOLUTION NEURAL NETWORK**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Suwicha Dungfull, Tanakit Thianwan and Chonjaroen Chairatsiripong

for the Oral Presentation entitled

**MODIFIED JUNGCK S-ITERATION TO GENERATE POLYNOMIOGRAPHS APPLICABLE
IN NONLINEAR COMPLEX FUNCTIONS**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Chanita Ruksakul and Sineenart Srimongkol

for the Oral Presentation entitled

A MATHEMATICAL MODEL OF HAND, FOOT, AND MOUTH DISEASE WITH
THE INVESTIGATION OF THE LOCKDOWN EFFECT

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

**Sippakorn Kuntan, Akarawin Rattanawong,
Konvika Kongkul and Preuttiporn Supaphon**

for the Oral Presentation entitled

**MATHEMATICAL MODELS TO PREDICT THE INHIBITORY EFFECT OF STAPHYLOCOCCUS AUREUS
BY CLOVE EXTRACT**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Punnaphat Siangchin, Suphanat Phuttharak and Praphaporn Sanganusat

for the Oral Presentation entitled

ESTIMATING THE EXPECTED RETURN FROM INVESTING IN STOCKS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Wararit Panichkitkosolkul

for the Oral Presentation entitled

NON-PARAMETRIC BOOTSTRAP CONFIDENCE INTERVALS FOR THE POPULATION MEAN OF
THE ZERO-TRUNCATED POISSON-ARADHANA DISTRIBUTION

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Prangthong Singkaew and Supalak Srinin

for the Oral Presentation entitled

THE k -DOMINATION NUMBER AND CONNECTED k -DOMINATION NUMBER
IN WHEEL RELATED GRAPHS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

**Kamonwan Chawong, Panaphan Suksawat,
Supuk Seepeakaew and Yanisa Chaiya**

for the Oral Presentation entitled

UPPER BOUNDS FOR THE TOTAL DOMINATION NUMBERS OF
CARTESIAN PRODUCTS OF DIRECTED CYCLES

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

**Thanapon Plaiduang, Pattadon Keawpeai,
Nalinthip Nadsapat and Siripong Sirisuk**

for the Oral Presentation entitled

ON ISOMORPHISMS BETWEEN GENERALIZED QUATERNION RINGS AND
MATRIX RINGS OVER CERTAIN FINITE FIELDS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Phonthip Kanalak and Nares Sawatraksa

for the Oral Presentation entitled

ABSORPTION LAWS FOR THE (b, c) - INVERSE IN Γ -RING

presented in 14th Science Research Conference held on 25-26 May 2023
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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Buddharak Sodtana, Nasha Narapinit and Chairat Modnak

for the Oral Presentation entitled

A MATHEMATICAL MODEL OF COVID-19 WITH CONTROL STRATEGIES AND ITS DYNAMICS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Pannathon Kreabkhontho

for the Oral Presentation entitled

STUDY OF THE 5th WAVE OF COVID-19 OUTBREAK IN THAILAND
USING MATHEMATICAL MODEL

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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