



## Program Overview

ICO'2022, October 27-28, 2022

Virtual Conference

Venue: Online Platform via Zoom Webinar

**THEME: Global Innovation with Compassion & Wisdom (GICW)**

**Day 1, 27 October 2022, 8 am – 12 noon**

**Venue: Online Platform via Zoom Webinar**

**Opening Session/Talk by Volume Editors of LNN Springer Book Series for ICO'2022**  
*Prof. Gerhard Wilhelm Weber, Prof. Elias Munapo and Prof. Jose Antonio Marmolejo*  
**Chair: AP. Dr. Joshua Thomas**

**Keynote 1: Professor Mohammad Shamsul Arefin, Chair: Prof. Morikazu Nakamura**  
**Data Science and Machine Learning for Smart Applications**

**Session 1: Metaheuristics and Artificial Intelligence Applications**

**Chairs: Dr. Kwok Tai Chui , AP. Dr. Joshua Thomas**

**Paper ID: 0608, 1524, 2673, 3004, 4106, 4180, 4514, 4820, 5555, 5994, 6743, 8472, 8570, 9166, 9343, 2562**

**Day 1, 27 October 2022, 2 pm – 4 pm**

**Venue: Online Platform via Zoom Webinar**

**Keynote 2: Professor Elmer Dadios, Chair: Prof. Igor Litvinchev**  
**Unmanned Aerial Vehicle Application for Transport and Open Field Farm Activities Monitoring**

**Session 2: IoTs, Green IT and Cloud Computing**

**Chairs: Prof. Naoshi Shiono, Prof. Mohammad Shahadat Hossain**

**Paper ID: 0147, 0411, 0494, 1209, 1073, 0696, 2020, 2588, 2764, 3725, 3787, 5063, 6316, 6735, 7062, 7184, 7361, 7567, 9628**

**Day 1, 27 October 2022, 4 pm – 6 pm**

**Venue: Online Platform via Zoom Webinar**

**Keynote 3: Professor Morikazu Nakamura, Chair: Prof. Mohammed Moshikul Hoque**  
**Modeling-based Optimization for Linear Integer Programming and Quantum Annealing**

**based on Petri Nets**

**Session 3: Machine Learning, Deep Learning and Virtual Machine Applications**

**Chairs:** *Dr. Safa Bhar Layeb, Prof. Mohammad Shamsul Arefin*

**Paper ID:** 0327, 0751, 1503, 1566, 2188, 2594, 3228, 3272, 3711, 3982, 4115, 5072, 6981, 7005, 7545, 7578, 7593, 7617, 9646, 4672

**Day 2, 28 October 2022, 8 am – 12 noon**

**Venue:** Online Platform via Zoom Webinar

**Keynote 4: Professor Ivan Matveev, Chair: AP. Dr. Joshua Thomas**

**Methods of Biometric Cryptosystems with Iris Data**

**Session 4: Renewable Energy, Smart Agriculture and Environmental Sustainability**

**Chairs:** *AP. Dr. Vladimir Panchenko, AP. Dr. Bazeer Ahamed Bagrudeen*

**Paper ID:** 0388, 2356, 2432, 2496, 2942, 3527, 4039, 5935, 6052, 6158, 6200, 6273, 6589, 7198, 7739, 7818, 7822, 7839, 8464, 9477, 9884

**Day 2, 28 October 2022, 1 pm – 3 pm**

**Venue:** Online Platform via Zoom Webinar

**Session 5: Computing, Modeling and Optimization**

**Chairs:** *Prof. Morikazu Nakamura, Dr. Deepanjali Shrestha*

**Paper ID:** 0522, 0336, 1581, 1884, 2295, 2718, 3350, 3842, 5404, 5681, 6361, 6596, 6688, 7196, 7388, 7444, 8548, 8902, 8911, 9261, 9583

**Day 2, 28 October 2022, 3 pm – 6 pm**

**Venue:** Online Platform via Zoom Webinar

**Session 6: Social, Economics, Management and Emerging Technology**

**Chairs:** *Prof. Elias Munapo, Dr. Danijel Kučak*

**Paper ID:** 1008, 2092, 2239, 2924, 3670, 3707, 4204, 4371, 5199, 6003, 6407, 7145, 8397, 8401, 9437, 9569, 9734, 7655, 6744

**Abstracts/Posters Presentation, Chair: AP. Dr. J. Joshua Thomas**

**Paper ID:** 9027, 3822, 9894, 2334, 9891, 5153, 0635, 3624, 5352, 4423

**Workshop: Mr. K. C. Choo, Chair: Prof. Elmer Dadios**

**Conference Close**