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10th International Congress on Industrial and Applied Mathematics

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ID	Place	Authors	Title
10939	C001	Markus Dablander, Thierry Hanser, Renaud Lambiotte, Garrett M. Morris	Exploring Molecular Machine Learning Models for Activity-Cliff Prediction
10941	C002	Rabah Khaldi, Assia Guezane-Lakoud	Existence Results for an eigenvalue Riesz-Caputo Fractional Boundary Value Problem
10954	C003	Hsueh-Chen Lee, Hyesuk Lee	A lower-order weighted least-squares finite element method for poroelasticity problems in rheology
10970	C004	Assia Guezane Lakoud, Rabah Khaldi	On $p(t)$ -Laplacian fractional differential equations
10988	C005	Jorge Duarte, Cristina Januario, Nuno Martins	THE IMPACT OF HABITAT LOSS ON A THREE-SPECIES TROPHIC SYSTEM
11119	C006	Abid Hussanan	HEAT TRANSFER ENHANCEMENT IN SODIUM ALGINATE BASED MAGNETIC AND NON-MAGNETIC NANOPARTICLES MIXTURE HYBRID NANOFLUID
11219	C007	Devsu Bantva	The Spectra of the Randic matrix of graphs
11362	C008	Aliya N. Kazmi, Akhlaq Husain, Ziya Uddin	Boundary layer preconditioners for elliptic problems in two dimensions
11396	C009	Chinwendu E. Madubueze	Modelling transmission dynamics of Lassa fever transmission with two environmental pathway transmissions
11523	C011	Dr. Naresh Menaria	Boros integral associated with generalized Galu� type Struve function
11587	C012	Lihao Liu, Zhening Huang, Pietro Li�, Carola-Bibiane Sch�nlieb, Angelica I. Aviles-Rivero	PC-SwinMorph: Patch Representation for Unsupervised Medical Image Registration and Segmentation
11588	C013	Nikhil Bhatia, Arvind Kumar Gupta	Far from equilibrium non-conserving exclusion process with site-wise dynamic defects
11672	C014	HUIWEN YU, OVE CHRISTIANSEN	Optimized first order alternating algorithms for fast and accurate low rank tensor decomposition
11673	C015	Sai Ganga, Ziya Uddin, Rishi Asthana	AI-based numerical method to solve 2-dimensional fluid flow problem
11773	C016	Yanqi Cheng, Lihao Liu, Shujun Wang, Yueming Jin, Carola-Bibiane Sch�nlieb, Angelica I. Aviles-Rivero	Why Deep Surgical Models Fail?: Revisiting Surgical Action Triplet Recognition through the Lens of Robustness
11827	C017	Muskan Verma, Sapna Sharma	The influence of road capacity on traffic flow in a percolation-backbone fractal with onramp
11839	C018	Yong-Jin Huang, Takashi Okada, Atsushi Mochizuki	A generalized structural bifurcation analysis of chemical reaction networks
11855	C019	Jorge Rold�n-L�pez, Pilar Benito	Quadratic Lie algebras algorithms applied over oscillator algebras
11875	C020	Arvind Kumar Gupta, Bipasha Pal	Interplay of reservoirs in an exclusion process with limited resources
11995	C021	HYUNJIN AHN, SEUNG-YEAL HA, JAEYOUNG YOON	Asymptotic tracking of a point cloud moving on Riemannian manifolds
12065	C022	Dan WU	Variational Approach to Hamiltonian Random Impulsive Differential Systems

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12248	C023	Semin Oh, Jeong Rye Park, Jongyook Park, Yoshio Sano, Jeongmin Ha, Sangkon Han	On Q-integral graphs with Q-spectral radius 6
12401	C024	Xinjuan Chen, Jiayi Gu, Jaehun Jung	A 5th order finite difference WENO Scheme
12419	C025	Yuna Lim, Youngsuk Ko, Renier G. Mendoza, Victoria May P. Mendoza, Jongmin Lee, Yubin Seo, Eunok Jung	Optimal strategy of non-pharmaceutical interventions considering medical capacity during the SARS-CoV-2 omicron-dominant period
12502	C026	Maja Jolic, Sanja Konjik, Darko Mitrovic	Control problem for nonlinear fractional dispersive system
12722	C027	Xinyue Luo, Yu Chen	Parameter Identification of Vegetation Pattern Dynamic Systems
12791	C028	India Marsden, David A. Ham, Patrick E. Farrell	Representation and use of finite elements in Firedrake.
12930	C029	Periodic domain; Asymptotic homogenization; Quadratic eigenvalue problem; Finite element algorithm	Multiscale computations for the elastic quadratic eigenvalue problem in composite structure
12944	C030	Zeyu Zhou, Wen Huang, Wei Jiang, Zhen Zhang	Optimization-based approach for computing equilibrium shapes of crystals
13038	C031	Wensheng Zhang, Zifan Jiang	Stability of an inverse problem for Biot's consolidation system in poro-elasticity
13075	C032	Wallace Peaslee, Shira Faigenbaum-Golovin, Ingrid Daubechies, Barak Sober	Global and Local Dimension Reduction to Aid Underdrawing Visualization using Hyperspectral Imaging Data from a 15th-Century Painting
13080	C033	Markus Tiefenthaler, Lukas Neumann, Elke Ruth Gizewski, Stephanie Mangesius	Deep learning approach for segmentation of cervical arteries in CTA images
13102	C034	A. Ivanov, M. Svishchuk, A. Swishchuk, S. Trofimchuk	Optimal control of stochastic differential delay equations and their applications
13153	C035	Taehyeong Kim, Jeong-Hoon Ju, Yeongrak Kim	New determinant formula for 4×4 matrix via Lasso
13154	C036	Jeong-Hoon Ju, Taehyeong Kim, Yeongrak Kim	A New Formula of the Determinant Tensor with Symmetries
13165	C037	Oscar Alvarez, Dr. Keith Ballard*, Dr. Endel larve*	Bernstein Polynomials for Finite Element Analysis
13181	C038	Yogita Mahatekar, Amey S. Deshpande	Solving fractional disease model using new iterative method
13199	C039	Sanjay Chaudhary, Kanta	Availability Evaluation of Warm Standby System with Fault Detection Delay and General Repair Time
13201	C040	A K Nandakumaran, Abu Sufian, Renjith Thazhathethil	Strong Contrasting Diffusivity with L1 source term
13261	C041	Iurii Nagornov	Application of meta-sampling method based on Maxima Weighted Isolation Kernel to the genetic data for personalized cancer care
13372	C042	Dr. Tyrus Berry, Dr. Zeeshan Ahmed	Data Assimilation For Quantum Nitrogen Vacancy(NV) Diamond Spectroscopy

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13383	C043	Zhaolu Liu, Robert Peach, Mauricio Barahona	Interaction Measures, Partition Lattices and Kernel Tests for Higher Order Interactions
13387	C044	Arceo, Carlene P; Cawiding, Olivia R; de los Reyes, Aurelio V A; Escosio, Rey Audie S; Hernandez, Bryan S; Mendoza, Renier G; Mendoza, Victoria May P; Mohammad, Rhudaina Z; Salonga, Pamela Kim N; Suarez, Fatima Lois E; Sy, Polly W; Vergara, Thomas Herald M	An Age-Structured COVID-19 Vaccine Roll-out Strategy in the Philippines
13388	C045	Elena Medvedeva, Anastasia Kisil, Raphael Assier	Diffraction by a finite defect on a square lattice: an iterative Wiener-Hopf method approach
13390	C046	Haruyoshi Tanaka	Dimension estimates in nonconformal graph directed iterated function systems via asymptotic perturbation
13429	C047	Tingting Zhu	Emergence of synchronization in Kuramoto model with frustration under general network topology
13449	C048	Jue Wang	Time-domain Maxwell's equations in biperiodic structures
13489	C049	Mandy Man	Heuristic algorithm for finding Hamiltonian cycles in random geometric graphs
13495	C050	Yoshinari Takeishi, Masazumi Iida, Jun'ichi Takeuchi	Characterizing Eigenspaces of Fisher Information Matrix in Simple ReLU Networks
13502	C051	Haifan Chen, Guozhi Dong, Wei Liu, Ziqing Xie	Second-order flows for computing the ground states of rotating Bose-Einstein condensates
13510	C052	Stanislav Potapenko	Variational treatment of boundary value problems in Cosserat elasticity
13528	C053	June-Ho, Lee	Phoneme-guided speech separation by using non-negative matrix factorization
13529	C054	Jung Eun Kim, Tobin Kim, Sunmi Lee, Hee-Sung Kim	Using a machine learning approach to forecast severe cases of COVID-19
13530	C055	Dilpreet Kaur and Kavita Goyal	Long short term memory based stock price predictions
13531	C056	Dilpreet Kaur and Rohit Kumar Singla	Artificial neural network (ANN) based derivative pricing
13551	C010	Bevina D. Handari, Fairuzia Zahira, Anuriyah Pebriana, Hilmi T. Shalahudin, Naufal Alfarisi, Gianina Ardaneswari, Dipo Aldila	Predicting Dengue Hemorrhagic Fever Incidents in DKI Jakarta by Considering Climate Factors using Machine Learning Models
13554	C057	Tao Zhang	A faster prediction-correction framework for solving convex optimization problems
13556	C058	Shiru Li, Tao Zhang, Yong Xia	A family of Barzilai-Borwein steplengths from the viewpoint of scaled total least squares
13576	C059	Matthew Smart, Stanislav Shvartsman, Hayden Nunley	Network formation by replicating coupled oscillators
13582	C060	Junseo Lee	Fast L sigma method for Variable order Fractional Derivative

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13587	C061	Sieun Lee, Soyeon Kim, Sangil Kim	Multi-attention based recurrent neural network for hand-foot-mouth disease prediction in Korea
13588	C062	Tatsuya Hisada, Yukino Kawai, Momoko Hayamizu	Phylogenetic Analysis of Flapping and Soaring in Birds: Uncovering Evolutionary Differences
13600	C063	Keita Watanabe, Momoko Hayamizu	Constructing a Phylogenetic X-cactus from a Distance Matrix
13615	C064	Hiroaki Kojima, Momoko Hayamizu	Counting the trees inside a phylogenetic network: an analytic combinatorial approach
13626	C065	Mariya Svishchuk	SIR Endemic Model in Semi-Markov Media
13634	C066	Muhammad Ismail, Bongsoo Jang	A Numerical Scheme for Fractional Partial Differential Equation Based on Green Function and CAS Wavelets
13653	C067	Yasuhisa Saito, Hiromu Gion	Backward bifurcation and permanence of a disease-severity-structured epidemic model with limited treatment capacity
13654	C068	Nathanael Tepakbong	Exponential rates of convergence for binary classification with Deep Neural Networks
13659	C069	Miji KIM, Sangil KIM	A Comparative study between CNN, CNN-LSTM for video classification
13683	C070	Masato Shinjo, Kojiro Sato, Masashi Iwasaki, Yoshimasa Nakamura	Preconditioned twisted factorization method with cyclic reductions for computing eigenvectors
13694	C071	Cristeta U. Jamilla, Renier G. Mendoza, Victoria May P. Mendoza	Parameter Estimation in Neutral Delay Differential Equations Using Genetic Algorithm with Multi-Parent Crossover
13729	C072	Rajeswari Seshadri, Sherin Agnus	Lie Symmetry Analysis of Ramani Equations
	C073	Masanori Yamanaka	Towards R(5,5)