INTERNATIONAL SYMPOSIUM ON COLLABORATIVE INFORMATICS (ISCI 2025)
March 5-7, 2025, Kagoshima University, Kagoshima, Japan

PROGRAMME SCHEDULE

Venue: Faculty of Engineering, Korimoto Campus

March 5, 2025 (Wednesday) Inamori Auditorium

10:00 – 11:00	Registration
11:00 – 11:30	Opening Ceremonies
11:30 – 11:50	Keynote lectures K1
11:50 – 12:10	Keynote lecture K2
12:10 – 12:30	Keynote lecture K3
12:30 – 12:50	Keynote Lecture K4
12:50 – 14:00	**Lunch Break**
14:00 – 14:20	Keynote Lecture K5
14:20 – 14:40	Keynote Lecture K6
14:40 – 15:00	Keynote Lecture K7
15:00 – 15:15	Tea Break
15:15 – 17:00	Campus Tour & Laboratory Visits
17:00 – 17:30	Free Time
17:30 – 19:00	Welcome Reception

March 7, 2025 (Friday)

9:00 – 15:00	Field visits

March 6, 2025 (Thursday) Inamori Auditorium & Lecture Halls

10:00 – 10:20	Keynote lecture K8
10:20 – 10:40	Keynote lecture K9
10:40 – 11:00	Keynote lecture K10
11:00 – 11:20	Keynote lecture K11
11:20 – 11:40	Tea Break
11:40 – 13:00	Technical Sessions (T1, T4, T7)
13:00 – 14:00	**Lunch Break**
14:00 – 15:30	Technical Sessions (T2, T5, T8)
15:30 – 15:45	Tea Break
15:45 – 17:00	Technical Sessions (T3, T6)
17:00 – 17:30	Free Time
17:30 – 19:00	Symposium Dinner

(Lunch & Dinner Venue - Co-op Cafeteria)

March 5, 2025 (Wednesday) Inamori Auditorium

10:00 – 11:00	**Registration**	
11:00 – 11:30	**Opening Ceremony**	Opening remarks *Toshinobu Yamaguchi, Professor & Dean, Graduate School of Science & Engineering, KU* Welcome remarks and overview of Kagosima University *Akio Ido, Professor, Executive Director and Vice-President for Research and Information Technology,KU* *Group Photo*
11:30 – 11:50	**Keynote Lecture (K1)**	Vision Driven Engineering *Shinichiro KATSU, Professor, Faculty of IT and Business, Cyber University, Japan*
11:50 – 12:10	**Keynote Lecture (K2)**	Study of implant materials and information for patient's quality of life and health; Medical Informatics *G C Mohan Kumar, Professor & Former Dean (Faculty Welfare), NITK Surathkal, India*
12:10 - 12:30	**Keynote lecture (K3)**	Unmanned aerial vehicles for precision agriculture information gathering to advance crop monitoring and management *K. Colton Flynn, Research Soil Scientist, USDA-ARS Grassland Soil and Water Research Laboratory, USA*
12:30 – 12:50	**Keynote lecture (K4)**	Scientometric insights into manufacturing engineering research in India and Japan: a comparative study - *Mallikarjun Angadi, Librarian, NITK Surathkal, India*
12:50 – 14:00		Lunch
14:00 - 14:20	**Keynote lecture (K5)**	Diagnosing Plastic Litter pollution: advances in remote sensing platforms and image analysis Shinichiro KAKO, *Professor, Graduate School of Science & Engineering, Kagoshima University, Japan*
14:20 - 14:40	**Keynote lecture (K6)**	Offshore Wind Technology - Current Challenges and Future Opportunities *Sharath Srinivasamurthy, Assistant Professor, Saga University, Japan*
14:40 - 15:00	**Keynote lecture (K7)**	Application of agriculture informatics for efficient use of water and effect of rain water harvesting in improving agriculture output - *Rajendra Kalbavi Rao, Secretary General, Association of Consulting Civil Engineers (India) & Executive Director, D K Nirmithi Kendra, Mangalore, India*

March 6, 2025 (Thursday) Inamori Auditorium

10:00 – 10:20	**Keynote Lecture (K8)**	Sustainable retrofitting of RC beams for enhancing shear performance using natural sisal-jute FRP hybrid composite system *H N Jagannatha Reddy, Professor, Bangalore Institute of Technology, India*
10:20 – 10:40	**Keynote Lecture (K9)**	Convective Transport Phenomena of Graphene/Water Nanofluid in Plate Heat Exchanger *Shuichi TORII, Professor, Kumamoto University, Japan*
10:40 – 11:00	**Keynote Lecture (K10)**	Utilizing generative AI in business : The potential of consulting AI *Katsunobu MATSUDA, CEO, BANSO Co., Ltd., Japan*
11:00 – 11:20	**Keynote Lecture (K11)**	Evolutionary Computation: Optimization Algorithms through Collaboration Instead of Gradients *Satoshi ONO, Professor, Graduate School of Science & Engineering, Kagoshima University, Japan*
11:20 – 11:40	Break	
11:40 – 13:00	**Technical Session (T1)**	Session Chair: Prof Unni Kartha G and Prof Nakul Ramanna Sanjeevaiah Design of passive tuned mass damper for structural vibration control in floating offshore wind turbines *Amiya Pandit and Sharath Srinivasamurthy* Precast Concrete Joint Connection Using Anchors and Epoxy Mortar Combination *Dhruva Narayana Katpady, Yoshikazu Akira, Kazuya Sakamoto and Kanako Shima* Sustainable Strengthening of RC Beams with CFRP Laminates using Near Surface Mounted (NSM) Technique *R Prabhakara, Pradeep C R, Nandeesh Sreenivasappa and H N Jagannatha Reddy* Impact resistance studies of NSM retrofitted two-way slabs using drop test *Arjun R P Reddy, Nandeesh Sreenivasappa, H N Jagannath Reddy and R Prabhakara* ABAQUS Analysis and Validation of Flexural Parameters of NSM strengthened RC Beams *Pradeep C. R, R. Prabhakara, H. N. Jagannatha Reddy and Nandeesh Sreenivasappa*
13:00 – 14:00	Lunch	

14:00 – 15:30	**Technical Session (T2)**	Session Chair: Dr Dhruva Narayana Katpady and Prof R Prabhakara Markov chain model for structural health prediction of bridges *SREENIVASAPPA Nandeesh, JERIN SULTANA Jui, AKIRA Yoshikazu and YAMAGUCHI Toshinobu* Manufactured aggregates for modern infrastructure: advancements, applications, and future directions - *Nakul Ramanna Sanjeevaiah, Chethan B and R Prabhakara* Modelling of shear transfer mechanism in different types of concretes by linear regression analysis of results obtained using push off specimens *Harish Kumar N R, Nandeesh M, Sreenivasappa, R Prabhakara and H N Jagannath Reddy* Detection of Concrete Cracks Using YOLOv8 and Estimation of Crack Width *Ryuo Kawabata, Kotaro Nagata, Yukari Nakamaru, Kentaro Yasui, Chihiro Morita and Noritaka Shigei* Fatigue Behaviour of Reinforced and Un-Reinforced GGBS Based Concrete *Ravi Kumar C M, Ibrahim Khalil Ulla K and Eramma H* An experimental study on the fatigue behaviour of un-reinforced GGBS based concrete *Ibrahim Khalil Ulla K, Ravi Kumar C M and Eramma H*
15:30 -15:45		Break
15:45 – 17:00	**Technical Session (T3)**	Session Chair: Prof Ravikumar C M and Dr. Sneha Korpe Seismic risk assessment to estimate insurance premium for residential buildings in Guwahati, India *Indrani Gogoi and Bhargav D.B. Gogoi* Assessment of Soil-Structure Interaction using Machine Learning, finite element model - A review *Deepa S, S.V.Venkatesh and I.R.Mithanthaya* A Review of Vibration Isolation Efficiency Using Infilled Trenches: Numerical and Experimental Perspectives - *Sreya M V* Seismic Data Extraction from Earthquake videos: An AI driven approach *Neeraja Nair,Unni Kartha G and Parvathy R* Production of Echo Effect in Virtual Studio Environment using Analog Delay System *Mrinank Shekhar Gogoi*

March 6, 2025 (Thursday) Lecture Halls Room 111

11:40 – 13:00	**Technical Session (T4)**	Session Chair: Dr Indrani Gogoi and Dr. Bo Causer Geochemical and Petrographic Characterization of Apatite: Implications for REE Enrichment and Resource Utilization – *Hirunika Manavi, Hafiz U. Rehman and Lalindra Ranaweera* Prospects of gold mineralization in the Yuki gold mine, Oita prefecture: geo-information from petrological and geochemical aspects – *Hafiz U. REHMAN, Rena YAMADA and Hiroyuki ARIKAWA* Accidents prediction model for selected two-lane rural highway as a surrogate measure of road safety *Raviraj H. Mulangi, Gangadhar Mahesh and Raghavendra S Sanganaikar* Study on parking demand and its characteristics using structural equation modelling *Sumayya Naznin P H, Anila Cyril and Abhirami V* Advancing Sustainable Railway Track Design Integrating Modern Technologies for Environmental Impact Reduction – *Premlatha K Naidu and Jagdish H Godihal* A Comparative Study on Wave Overtopping Discharge for A Perforated and Non-Perforated Semicircular Breakwater - *Vishwanatha Mane, Manu, Subba Rao and A. Vittal Hegde*
13:00 – 14:00	Lunch Break	
14:00 – 15:30	**Technical Session (T5)**	Session Chair: Prof Parvathy R and Dr. Takashi Kawakami Decision Support Information System for Academic Excellence: A New Frontier for Engineering Community in the Virtual Information world *Suresh Jange, Mallikarjun Angadi, Dundappa Amoji and Mallikarjun Vaddenkeri* A Hybrid Model of Transformers and CNNs for Studying Long-Range Word Relationships in NLP Tasks *Faria Samreen* Navigating the Future of Tourism: AI-Driven ChatGPT Trip Planner Acceptance with a Hybrid SEM-ANN and Necessary Condition Analysis – *Abhishek Talawar, Sheena S, Sreejith Alathur and Suresh P.V.*

		MuZAC : Multilingual Zero-Shot Automated Video Captioning using Audio-Visual Modalities for Under-Resourced Languages - *Girija Jagannath, Sree Pragna Machupalli* Harnessing Genetic Algorithms for Enhanced Reasoning: A Nature-Inspired Approach to Decision Making *Ashok A Itagi and Jagdish H Godihal* Sustainable Smart Cities: What Lies Ahead - *Kavita J Godihal and Jagdish H Godihal*
15:30 - 15:45		Break
15:45 – 17:00	**Technical Session (T6)**	Session Chair: Prof Shuichi Torii and Ms Hirunika Manavi Comparing the Accuracy of Models for Predicting the Wind Speed Focussed Approach for a Rooftop Mounted Micro Wind Turbine *Sathyabhama A, Ramakrishna N. Hegde and Ratan U. Gaonkar* Comparative study of Corrosion inhibition efficiency of Naringin on Aluminium and AA 6063 alloy in 0.5 M HCl solution: Insights from Experimental and Quantum chemical studies *Divya Kumari and Reena kumari P D* Influence of ground control points in aerial survey and ORI mapping *Shwetha A, Bibang Gwra Basumatary, Karthik M H and Nakul Ramanna Sanjeevaiah* Application of response surface methodology for evaluating performance of tannery solid waste in biogas production – *Sneha Korpe, Susumu Nii, Shirish H Sonawane and P Venkateswara Rao*

March 6, 2025 (Thursday) Lecture Halls Room 121

11:40 – 13:00	**Technical Session (T7)**	Session Chair: Mr Rajendra Kalbavi Rao and Mr Prashant Kurdekar Performance of recycled fine aggregate based concretes *Harshkumar V. Annigeri, Subhash C. Yaragal, Salim Ali, Afnan Khan, Ashish Kumar, Vishal Pratap Maurya and Aithala Panambur Harish* Processing of agriculture waste: rice husk ash and sugarcane bagasse ash, as value added materials in concrete - a review: *Harshkumar V. Annigeri, Subhash C. Yaragal, and Bharath Jayaram* Performance of recycled aggregate based pervious concretes *Javeed Akthar, Karthik M, Akash M. H, Subhash C. Yaragal, Harshkumar V. Annigeri and Shetty Jagadeep* An experimental study on the performance of eco-friendly pervious concretes *Pavan Rathod, Vinodkumar, Ullas M Kuppinakeri, Subhash C. Yaragal, Harshkumar V. Annigeri and Krishna Rao Shivananda* Numerical study on laminated elastomeric isolation bearings subjected to cyclic loading *Kanika Sharma, M H Prashanth, Pruthvi Raj S and Prashanth M V* Effect of soil flexibility on strengthening schemes for OGS building frames *Deepa Sunil Mahalkari, Hemant Sonawadekar, Neha S N and Shetty Sanjith*
13:00 – 14:00		Lunch Break
14:00 – 15:30	**Technical Session (T8)**	Session Chair: Dr Deepa S and Prof Hafiz U. REHMAN Studies on treatment of phenolic wastewater from petrochemical industry using electrocoagulation technique - *Prashant Kurdekar and Lokeshappa B* A sustainable approach to use construction and demolition waste (CDW) as fine aggregate in neo concretes *Manu P Hegde, Nandeesh Sreenivasappa, Pradeep C R and R Prabhakara* Investigating the flexural performance of RCC beams strengthened with sustainable eco-friendly Sheep Wool FRP (SWFRP) using U-wrapping technique *Archana D. P., H. N. Jagannatha Reddy, R. Prabhakara, Hemalatha. K, H. P. Thanuja and Chethan Chandru*

		Effective modelling of masonry infills for better performance of structure using pushover analysis *Lakshmikantha B A, Shobha L and R Prabhakara* Consideration on the application of Physics-Informed Neural Networks to Unsaturated Seepage Analysis *Ryusei Fukunaga, Shinichi Ito and Kazunari Sako* A study on bird call recognition of a rare species inhabiting Amami-Oshima island *Yusuke Uemura, Shinya Fukumoto, Masayuki Kashima, Mutsumi Watanabe, Shin Ugawa and Naoko Eimura*

Note:

1) **The presentation time is 20 minutes for keynote lectures including discussion.**
2) **The presentation time is 12 minutes for technical papers (10 minutes of presentation + 2 minutes of discussion).**
3) **Laptop/computer will be made available in the presentation room for those who are bringing the presentation in a USB drive. The presenters are requested to upload their ppt before the start of their session.**