SYMPOSIUM ON COMPUTATIONAL GASTRONOMY

THE EMERGING DATA SCIENCE OF FOOD, FLAVORS, NUTRITION, & HEALTH

Complex Systems Labratory, IIIT-Delhi, 21 December 2022

:: Symposium Schedule ::

> 08:30 – 09:15 : Registration + Computational Gastronomy CoSyLab Poster Session

Inaugural Session

- > 09:30 09:40 : Opening Remarks :: Prof. Ranjan Bose (Director, IIIT-Delhi)
- 09:40 10:00 : Keynote Talk: "Blending Food and Data Science—The Need of the Time" Chef Manjit Singh Gill (President, Indian Federation of Culinary Associations)

Making Food Computable

- 10:00 10:50 : "Making Food Computable—A Data-Driven Approach to Food" Prof. Ganesh Bagler (IIIT-Delhi)
- ◆ 10:50 11:30 : Group Photograph + Refreshments/Tea Break + CoSyLab Poster Session

Computational Gastronomy: Education, Policy & Practice

- 11:30 11:50 : "A Data-Driven Approach for Food and Nutrition Policy"
 Mr. Pawan Agarwal (Former CEO, FSSAI; Founder and Chief Executive at Food Future Foundation).
- 11:50 12:20 : "Refreshing the Culinary Education"
 Prof. Kamal Kant Pant (Principal, IHM Pusa, New Delhi).
- 12:20 12:40 : "Computational Gastronomy for Food"
 Chef Akshay Malhotra (TagTaste).
- 12:40 13:00 : "Computational Gastronomy for Food"
 Chef Parvinder Singh Bali (Corporate Chef, The Oberoi Centre of Learning and Development, Delhi).
- Lunch Break: 13:00 14:30 : Lunch Discussions + CoSyLab Poster Session

Charting the Data-driven Future of Food

- > 14:30 15:00 : "Can a Computer Think Like a Chef?"— Mansi Goel (Ph.D. Research Scholar, IIIT-Delhi)
- 15:00 15:30 : "Emergence of the home chefs and Small/Medium Home based good enterprises post COVID" Rushabh Jhaveri (Founder, Recipe Cup, USA)
- 15:30 16:00 : "Leveraging Computational Gastronomy in the Wholesale Food Supply Chain" Alon Har-Tal (Co-Founder and CTO at Cheetah, Israel-USA).
- 16:00 16:30 : Tea Break + CoSyLab Poster Session

Data-Driven Food for Sustainability, Nutrition, and Health

- > 16:30 17:00 : "A data-driven Smart Protein future"— Mansi Virmani (Good Food Institute)
- > 17:00 17:30 : "Gut Microbiome: Connecting Diet with Health"— Prof. Tarini Shankar Ghosh (IIIT-Delhi)
- > 17:30 17:40 : Concluding Remarks by Prof. Ganesh Bagler & Certificate Distribution

SYMPOSIUM ON COMPUTATIONAL GASTRONOMY

THE EMERGING DATA SCIENCE OF FOOD, FLAVORS, NUTRITION, & HEALTH



d

Complex Systems Labratory, IIIT-Delhi, 21 December 2022



:: POSTERS ::

- > **[RECIPE]** "Discovery of the molecular essence of Indian cuisine and its applications", Research: Anupam Jain, Rakhi NK, Ganesh Bagler* (arXiv:1502.03815).
- > [RECIPE] "Data-driven investigations of culinary patterns in traditional recipes across the world", Navjot Singh and Ganesh Bagler* (Best Paper Award; DECOR, IEEE ICDE 2018, Paris 2018).
- **[RECIPE]** "RecipeDB: A resource for exploring recipes", D Batra et al., (2019).
- > [RECIPE] "Ratatouille: Novel Recipe Generation", Mansi Goel, Pallab Chakraborty, Vijay Ponnaganti, Minnet Khan, Sritanaya Tatipamala, Aakanksha Saini, Parul Sikri, Shrey Rastogi, Niharika, Adarsh Singh Kushwah, and Ganesh Bagler* (2022).
- > [RECIPE] "Turing Test For Chef", Mansi Goel, Shubham Garg, Ansh Mittal, Bharat Soni, Manvik Arya, and Ganesh Bagler* (2022).
- > [RECIPE] "The Tree of World Cuisines", Jushaan Kalra, Tript Sharma, Utkarsh Upadhyay, Sakshi Arora, Saad Ahmad, Bhavay Aggarwal, and Ganesh Bagler (2019)
- > [FLAVOR] "FlavorDB: A resource to explore flavor molecules", Neelansh Garg et al., Nucleic Acids Research (2018).
- > [FLAVOR] "Predicting Odor Clusters using Machine Learning", Sharad Jain, Rudraksh Tuwani and Ganesh Bagler* (2022).
- > [FLAVOR] "Data-driven analysis of perfumes", Shayna Malik, Sanket Deshpande, Mansi Goel, and Ganesh Bagler* (2022)
- > [TASTE PREDICTION] "BitterSweet: Building Machine Learning Models for Bitter & Sweet Taste Prediction", Rudraksh Tuwani, Somin Wadhwa and Ganesh Bagler* (2019)
- > [TASTE PREDICTION] "How sweet is that? Machine Learning Models for Predicting Sweetness", Mansi Goel, Aditi Sharma, Ayush Chilwal, Sakshi Kumari, Ayush Kumar, and Ganesh Bagler* (2022).
- > [HEALTH] "DietRx: An integrative resource for health impacts of food", Rudraksh Tuwani, Rakhi NK, Neelansh Garg, and Ganesh Bagler* (2019).
- > [HEALTH] "SpiceRx: A resource for exploring health impacts of culinary herbs and spices", Rakhi NK, Rudraksh Tuwani, Neelansh Garg, Jagriti Mukherjee and Ganesh Bagler*, bioRxiv 273599 (2018).
- > [HEALTH] "WhatDish: Food Logging and Nutrition Control", Nitesh Narwade, Mansi Goel, Deepanshu Pandey, Purva Parmar, Gauri Toshniwal, Vishesh Agrawal, Shivangi Dhiman, Lavanya Gupta, Anushka Gupta, Vishnumolakala Nikhila, Amuru Hareesh, Ekta Gambhir, Ronak Chhajed, Samiksha Garg, Meenal Jain, Astha Jain, and Ganesh Bagler* (2022).
- > [HEALTH] "Foodle: Gamification for better nutrition and health", Ayush Singh Chilwal, Sakshi Kumari, Ayush Kumar, Mansi Goel, and Ganesh Bagler* (2022).
- > [UC-Irvine (USA)] "Food and Wellbeing Recommendation Systems for Human and Environmental Health", Nitish Nagesh, Iman Azimi, Tom Andriola, Amir M. Rahmani, Ramesh Jain, University of California Irvine, USA.