Program of QBIC Workshop 2015

October 17, 2015, Saturday - Main Session (1)

9:55 ~ 10:00  Opening Address
10:00 ~ 10:50  A. Jamiołkowski, Nicolaus Copernicus University, Poland
   On Decompositions of Open Dynamical Systems
   with Time-Dependent Generators
10:50 ~ 11:40  D. Chruscinski, Nicolaus Copernicus University, Poland,
   On Admissible Memory Kernels for Random Unitary Qubit Evolution
11:40 ~ 13:30  Lunch Break and Poster Presentation
13:30 ~ 14:20  F. Hiai, Emeritus Professor, Tohoku University, Japan
   Quantum divergences and reversibility
14:20 ~ 15:10  T. Matsuoka, Suwa Tokyo University of Science,
   Mutual entropy on quantum encoding
15:10 ~ 15:30  Coffee Break
15:30 ~ 16:20  S. Iriyama and M. Ohya, Tokyo University of Science, Japan,
   Mathematical model of adaptive computation and its application for
   the brain model
16:20 ~ 17:10  M. Asano, Tokuyama Technical College, Japan
   Quantum-like Model of Decision-making in Situation of Risk
   and Prospect Theory
17:10 ~ 17:20  Coffee Break
17:20 ~ 17:50  Y. Saigusa, K. Tahata and S. Tomizawa, Tokyo University of Science, Japan
   On decompositions of symmetry for square contingency tables

18:00 ~  Welcome Party  (at Cafeteria (2F) in Canal Hall)
October 18, 2015, Sunday - Main Session (2)

10:00 ~ 10:50  L. Accardi, Roma II University, Italy  
**Q-Jordan-Wigner embeddings and associated white noises**

10:50 ~ 11:40  M. Regoli, Roma II University, Italy  
*Software implementation of a new family of cryptographic algorithms: problems and solutions*

11:40 ~ 14:00  **Lunch Break and Poster Presentation (Photo)**

14:00 ~ 15:00  T. Hida, Emeritus Professor, Nagoya University, Japan,  
*Some topics on application of white noise theory* (**special talk**)

15:00 ~ 15:50  Si Si, Emeritus Professor, Aichi Prefectural University, Myanmar  
*The space noise and the convex cone of linear systems defined by the noise*

15:50 ~ 16:10  **Coffee Break**

16:10 ~ 17:00  I. Yamato, Tokyo University of Science, Japan  
Proposal of principles in bioenergy transduction and information biology

17:00 ~ 17:50  N. Watanabe, Tokyo University of Science, Japan  
*Note on Entropies for Quantum Dynamical Systems*

18:00 ~  **Banquet**  (at Cafeteria (2F) in Canal Hall)
October 19, 2015, Monday - Main Session (3)

10:00 ~ 10:50  A. Khrennikov, Linnaeus University, Sweden

Towards quantum-like modeling of decision making:
Can quantum agents agree to disagree?

10:50 ~ 11:40  I. Ojima, RIMS, Kyoto University, Japan

Geometry of Sector-classifying Space in Categorical QFT

11:40 ~ 13:00  Lunch Break

13:00 ~ 13:50  K. Kuchitsu, Tokyo University of Science, Japan

Signaling Network in Plants

13:50 ~ 14:40  K. Sato, Tokyo University of Science, Japan

Prognostic classification of breast cancer based on
information measure

14:40 ~ 15:00  Coffee Break

15:00 ~ 15:50  Y. Tanaka, Tokyo University of Science, Japan

Adaptive dynamics and double slit experiment

15:50 ~ 16:20  Y. Kondo and S. Miyazaki, Tokyo University of Science, Japan,

Functional Site Prediction of Translation Elongation Factor 1A
List of Poster Presentations

1. Hiromi Ito, Noboru Watanabe, Tokyo University of Science, Japan
   *On Construction of Connected Channel and its Quantum Capacity*

2. Takaya Suzuki, Noboru Watanabe, Tokyo University of Science, Japan
   *On state change of FTM gate by using the orthogonal states*

3. Keita Kohira, Noboru Watanabe, Tokyo University of Science, Japan
   *On construction of quantum logical gates with a general beam splitting by Fichtner-Freudenberg expression*

4. Masahiro Muto, Noboru Watanabe, Tokyo University of Science, Japan
   *On construction of KOW entropy and its computation for generalized AOW entropy*

5. Takahiro Obuchi, Noboru Watanabe, Tokyo University of Science, Japan
   *On construction of FTM gate by using two orthogonal input states*

6. Kyouhei Ohmura, Noboru Watanabe, Tokyo University of Science, Japan
   *Formulations of Quantum Mean Entropy and Quantum Mean Mutual Entropy and Their Computations*

7. Kenji Hashimoto, Shoji Yabuta, Hidetaka Kaya, Nobutaka Kitahata, Toshihide Hara, Keiko Sato and Kazuyuki Kuchitsu, Tokyo University of Science, Japan
   *Phylogenetic analyses to explore the evolution of enzymes that produce reactive oxygen species in the plant kingdom*

8. Bunki Toh1, Takamitsu Kurusu1,2,3, Yozo Okazaki4, Kotaro Nihira1, Shigeru Hanamata1,5, Tomoko Koyano1, Nobutaka Kitahata2, Noriko Nagata6, Kazuki Saito4, Kazuyuki Kuchitsu1,3, Tokyo University of Science, Japan
   *Roles of autophagy during male reproductive development in rice*