

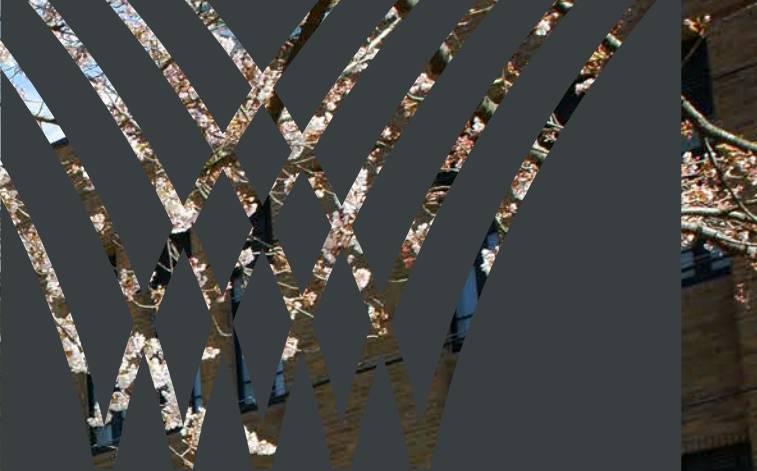


TOHOKU
UNIVERSITY



TOHOKU FORUM for CREATIVITY





Mission

In 2013, Tohoku University established the Tohoku Forum for Creativity (TFC). TFC will hold several three-month scientific programs, called Thematic Programs, to bring together junior and senior scholars from various scientific disciplines related to the program themes. The aim of these programs is to identify important problems across all of the sciences and humanities, and to develop innovative ideas and deeper theoretical foundations through intensive, focused discussions. Junior researchers such as graduate students and postdoctoral fellows are especially encouraged to participate in these programs.





Message from the Director

The “Tohoku Forum for Creativity” is the first international visitor research institute in Japan. In this forum, we will have a number of scientific programs every year, with each program lasting approximately 3 months. The Forum was established on October 16th 2013, after which we ran a pilot five-day workshop entitled “Particle Physics and Cosmology Beyond the Higgs Boson”. Over 200 researchers participated in this workshop, including the Nobel Laureates Prof. Steven Weinberg and Prof. David Gross.

Tohoku University has announced the “Satomi Vision” which conceives of Tohoku University as a fellowship of knowledge, where people with diverse disciplines can gather, learn, and create. By combining the strengths of our diverse constituents, we strive towards two goals, namely : Achieving world-class status, and Leading the post-earthquake restoration and regeneration in the Tohoku area. In order to facilitate the achievement of these goals, we have established the Tohoku Forum for Creativity.



Sadayoshi ITO

Director,
Tohoku University Executive Vice President (for Research)

Program 2014



— Challenges for Big Data in our Society: Statistical Analysis of Large Scale, High Dimensional Data for Socio-Economic Problems

In the summer of 2014, we will commence the “Challenges of Big Data in our Society” program series. In the first program, we will discuss the development of tools for analyzing socioeconomic-specific large scale, high dimensional data. Furthermore, we explore how these analyses can be applied to service innovation and the solution of contemporary social and economic problems. This approach will be distinguished by the interdisciplinary fusion of data science, economics and management.



— Recovery from the Great East Japan Earthquake and Tsunami: Future Strategies for Disaster Risk Reduction

Huge natural disasters in our societies are now a global issue. To address the need for an international disaster prevention strategy, the UN World Conference on Disaster Risk Reduction will be held in March 2015 in Sendai. In this program, we will organize: a “Multi-hazard Natural Disaster” summer school, study group discussions, and an international symposium. The aim of the program is to summarize the opinion of experts in order to develop strategies in various fields of disaster-related research prior to the UN World Conference in 2015.

Program 2015

- Frontiers of Brain Science
- Theoretical and Empirical Studies of the Effects of Technological Changes on Social Mobility and Income Distribution: Focusing on Inequalities of Social Mobility and Income in East Asia
- Fundamental Problems in Quantum Physics including Strings, Black Holes, Quantum Information and their Interrelations

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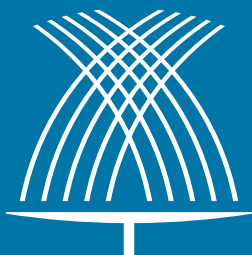
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