

**European Academy of Sciences & Arts**  
**German-Japanese Society of Integrative Science**

***Complexity & Integration***  
***in Nature and Society***

**Symposium 28.2.19 -1.3.19**

At the occasion of the annual festive session in Salzburg 2019, the European Academy of Sciences and Arts organizes a common symposium with the German-Japanese Society of Integrative Science. According to the famous slogan of Leibniz „Unity in Diversity“, the German-Japanese Society tried to integrate different scientific, cultural and religious traditions and approaches in Japan and Germany since many years. But „Unity in Diversity“ is a world-wide challenge, especially for Europe. Therefore, members of both societies suggested to organize a common symposium on „Complexity & Integration in Nature and Society“. The European Academy of Sciences and Arts invites their members of different classes to take part and contribute to the common symposium.

From a scientific point of view, complex dynamical systems are well-known interdisciplinary methods of modelling in the physical, biological, and ecological sciences. Therefore, complexity research brings together scientists of different fields to learn from one another and to solve different problems. In the life sciences and medicine, climate, environment, populations, and organisms are examples of highly complex systems which need interdisciplinary research. Without any doubt, our political, legal, and economic world is driven by increasing diversity and complexity. We need integration by corporate and public governance. Can digitalization solve the problem of integration with a world-wide technological infrastructure? At this point, humanities and philosophy come in to ask for ethical standards of integration. Last but not least, the demand for „Unity in Diversity“ has deep roots in the world religions.

Under this scope, the symposium will consider our topic in the following sections:

- Complex systems in mathematical and physical sciences
- Complex systems in climate, environmental, and life sciences
- Complex systems in medicine and psychology
- Complexity & integration in political, legal, and economic sciences
- Complexity & integration in technical and digital sciences
- Complexity & integration in humanities and world religions

Members who are interested to offer a talk (25-30 minutes) related to these sections are asked to send an e-mail to [mainzer@tum.de](mailto:mainzer@tum.de) until 15th October. The symposium will take place on Thursday 28th February 2019 afternoon (14.00-18.00) and Friday 1st March 2019 morning (9.00 – 12.00). The program of the symposium with the exact time schedule will depend on the offered talks of the academy members.