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## MATHEMATICS IN SCIENCE AND SOCIETY COLLOQUIUM

# In Transition: Mathematics and Art

**Dr. Kirsi Peltonen, Aalto University**

What are the needs for enhancing interaction between contemporary mathematics and arts in different levels of education, research and broader in the society? Recent multidisciplinary activities challenging the traditions and communication of mathematics and arts at Aalto University in Finland have given a new type of platform to share the beauty of mathematics systematically and open accessible layers to a useful interplay. Dr. Kirsi Peltonen will discuss how the many outcomes and byproducts of their up-to-date experiments are perfect for applications in digital technologies such as programming, CAD, 3D printing, virtual and augmented reality and present scenarios for future development.

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**Tuesday, Feb. 18 | 4-5 p.m.**  
**314 Altgeld Hall**

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Kirsi Peltonen administers the Math and Arts program at Aalto University, whose transdisciplinary courses lie at the intersection of mathematics, visual arts, design and architecture. Her work has been exhibited at the Heureka Science Centre, the Espoo Cultural Centre, and FutureLab Shanghai. She has given talks at the 2016 Bridges Conference (Jyväskylä, Finland), the 2017 Geometry Labs United Conference (Seattle), and the 2018 International Congress of Mathematicians. She is chair of the organizing committee for the 2020 Bridges Conference (Aalto University, Finland). In 2018, she was recognized by the Finnish Mathematical Society for her efforts to synthesize math, art, design and architecture through these courses.



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