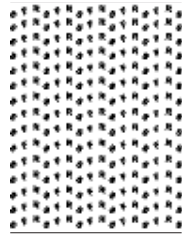

FRS SYMPOSIUM 2024

Bringing together a community of experts and enthusiasts
to jointly discuss the future of resilience

Time: 8:30 am - 9:00 pm

Date: 11 January 2024

Venue: CREATE Tower, 1 Create Way,
138602, Singapore



(FRS) FUTURE
RESILIENT
SYSTEMS



Programme

Opening Session (CREATE, L16)

| | |
|-------------|---|
| 08:30-09:00 | Arrival and Registration |
| 09:00-09:05 | Welcome Address Prof. Manu Kapur, Director, SEC |
| 09:05-09:20 | The Need for Resilience Dr Jonas Joerin, FRS Director, SEC |
| 09:20-09:50 | Tea Break |

Scientific Excellence (CREATE, L16)

Session 1: Resilience Metrics

| | |
|-------------|---|
| 09:50-10:00 | Introduction and Overview Prof. Bozidar Stojadinovic, ETH Zurich ; Prof. Edmond Lo, NTU |
| 10:00-10:10 | Resilience Metrics for the Electric Power Infrastructure of Singapore Prof. Yan Xu, NTU; Prof. Gaoxi Xiao, NTU |
| 10:10-10:20 | Urban Climate Resilience to Mitigate the Inequitable Heat Risk at High Density Tropical Cities Prof. Chao Yuan, NUS; Prof. Jan Carmeliet, ETH Zurich |
| 10:20-10:30 | Social Resilience – Metrics and Their Relevance for Planners and Decision Makers Prof. Renate Schubert, ETH Zurich |
| 10:30-11:00 | Panel Discussion |
| 11:00-11:15 | Tea Break |

Session 2: Resilience in Socio-Technical Systems

| | |
|-------------|--|
| 11:15-11:20 | Introduction and Overview Prof. Martin Raubal, ETH Zurich; Prof. Jimmy Peng, NUS |
| 11:20-11:35 | Re-engineering Infrastructures as Cyber Physical Systems Prof. Eleni Chatzi, ETH Zurich |
| 11:35-11:50 | Social Media-based Hazard Detection and Situation Awareness Prof. Kezhi Mao, NTU |
| 11:50-12:05 | Who Makes Resilient Financial Decisions? Dr Sandra Andraszewicz, ETH Zurich |
| 12:05-12:35 | Panel Discussion |
| 12:35-14:30 | Lunch |

Programme

Translation of Resilience Research (CREATE, L16)

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- | | |
|-------------|---|
| 14:30-14:40 | Introduction and Overview Dr Jonas Joerin, FRS Director, SEC |
| 14:40-15:00 | Building a Resilient and Liveable Singapore Ms Elaine Tan, Director, Research, Centre for Liveable Cities |
| 15:00-15:20 | Resilience by Design Dr Eugene Seah, Global Board Member, COO (Singapore Operations), Senior Director, GCEO Office & Special Projects, Meinhardt (Singapore) Pte Ltd. |
| 15:20-15:45 | Panel Discussion |
| 15:45-16:00 | Break |
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Engagement Session (CREATE, L6)

- | | |
|-------------|-----------------------|
| 16:00-18:00 | FRS Exhibition |
| 18:00-21:00 | Dinner |
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About Us

Future Resilient Systems is the second programme of the Singapore-ETH Centre, established by ETH Zurich – the Swiss Federal Institute of Technology Zurich and Singapore's National Research Foundation (NRF), as part of the NRF's Campus for Research Excellence and Technological Enterprise (CREATE).

Our Mission

We aim to improve the resilience of high-density urban infrastructure systems and systems of systems against ambiguous and unexpected hazards and threats, thus making Singapore a demonstration platform for the world. We enhance the resilience of urban systems by combining engineering, design and social research.

Research Partners

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