Méditerranée A1

Mathematical Theory of Control and Signal Processing in the Digital World (A workshop dedicated to Yutaka Yamamoto's 70th birthday)

Organizer: Masaaki Nagahara — The University of Kitakyushu

Co-Organizer(s):

Hideaki Ishii — Tokyo Institute of Technology

Kenji Kashima — Kyoto University

Kenji Sugimoto — Nara Institute of Science and Technology

8:50-9:00

Opening Remarks

Organizers

9:00-9:30

Output Regulation of Multivariable Invertible Nonlinear Systems via Robust Dynamic Feedback Linearization

Alberto Isidori — University of Rome

9:30-10:00

Thoughts on Optimal Control

Paul Fuhrmann — Ben-Gurion University of the Negev

10:00-10:30

Interpolation-based Design of Stabilizing Controllers for Retarded and Neutral Delay Systems

Hitay Ozbay — Bilkent University

10:30-11:00

Coffee Break

11:00-11:30

Dynamic Relations in Sampled Processes

Anders Lindquist — Shanghai Jiao Tong University

11:30-12:00

Determining Causality

Brian Anderson — Australian National University

12:00-12:30

On the Geometry of Optimal Mass Transport, Where Probability, Control, and Physics Meet

Tryphon Georgiou — University of California, Irvine

12:30-14:00

Lunch Break

14:00-14:30

Ramanujan Graphs and the Matrix Completion Problem

Mathukumalli Vidyasagar — Indian Institute of Technology Hyderabad

14:30-15:00

Estimating the State of a Linear System Across a Network

Stephen Morse — Yale University

15:00-15:30

Signal Reconstruction, Neuroscience, and Deep Learning

Pramod Khargonekar — University of California, Irvine

15:30-16:00

Coffee Break

16:00-16:30

Kernel Methods for Data-driven Control

Toshiharu Sugie — Osaka University

16:30-17:00

Implication of the Lifting Technique to System Identification

Yoshito Ohta — Kyoto University

17:00-17:30

Adjustable Lossless Mechanisms: What Is It Possible to Build?

Malcolm Smith — University of Cambridge

17:30-17:40

Closing Remarks

Organizers