

## CENTRE DE RECHERCHES MATHÉMATIQUES



# THEMATIC SEMESTER S KILL COMPLEX SYSTEMS MODELS, APPLICATIONS, PERCEPTIONS, AND POLICY IMPLICATIONS

#### LOCAL ORGANIZING COMMITTEE

Christian Genes Debbie J. Dupui Erica Moodie Johanna G. Ne Bruno Rémillarc David A. Steph Ruodu Wang

## INTERNATIONAL SCIENTIFIC COMMITTEE Carole Bernard (Grenoble School of Manage)

Rama Cont Michel Dacorog Anthony C. Day Anne-Laure Foug Paul Glasserma Daniel J. Graha Nicholas P. Jew Matthias Schere Steven Vanduffe Francis W. Zwier

AISENSTADT CHAIRS Claudia Klüppelberg (Technische Universität München August – September 2017

(University of York) Alexander J. McNeil September – October 2017

# August 21 - 24, 2017

http://qrmtutorial.org/ Instructors: Rüdiger Frey Marius Hofert

#### This thematic program is funded by the following institutions:



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new challenges and initiate fruitful collaborations.

alike with a hands-on introduction to this rapidly growing field.

Université **m** de Montréal

Hazards inherent to complex interconnected systems can lead to disasters of epic proportions with untold environmental, economic

This thematic program seeks to promote the study and use of stochastic models and statistical inference techniques that are relevant

for an enhanced understanding of the interplay between risk factors and their potentially catastrophic effects on dynamic systems.

Dependence models, extreme-value theory and time series analysis form the methodological backbone of quantitative risk

management. Many important current issues will be considered, including the development of models for extreme events and

large collections of variables, risk aggregation and model validation through expert use, the assessment and control of systemic

The workshops are designed to foster interactions among probabilists, statisticians, econometricians, regulators, and risk modelers

in finance, insurance, hydrology, as well as in the health, climate, and environmental sciences. They will bring together researchers

and practitioners from these various areas and will present an excellent opportunity to take stock of recent developments, identify

A week-long school based on the bestseller "Quantitative Risk Management: Concepts, Techniques and Tools" by McNeil, Frey

and Embrechts (Princeton University Press, 2015) will precede the workshops and provide young investigators and professionals

and social consequences. The identification, quantification, prediction, control, and mitigation of risk factors is thus essential to

ensure individual protection and system integrity while promoting sustainable development

risk, and risk propagation in epidemiology, finance, power networks, computer systems, etc.

McGill UQAM

Concordia





# www.crm.math.ca/Risk2017 影響



# AUGUST – DECEMBER 2017 Centre de recherches mathématiques Montréal, Canada

Chair	(McGill University)
	(HEC Montréal)
	(McGill University)
ehová	(McGill University)
	(HEC Montréal)
IS	(McGill University)
	(University of Waterloo)

	(Grenoble School of Management)
	(Imperial College London)
a	(DEAR-Consulting, Switzerland)
son	École polytechnique fédérale de Lausanne
eres	(Université Claude-Bernard, Lyon)
	(Columbia University)
	(Imperial College London)
	(University of California at Berkeley)
	(Technische Universität München)
	(Vrije Universiteit Brussel)
	(Pacific Climate Impacts Consortium, Victoria,

RELATED ACTIVITY Summer School in Quantitativ Risk Management

(Wirtschaftsuniversität Wien University of Waterloo)

#### **Environmental Risk Modeling** and Extreme Events .ugust 28 – 31, 2017

**Organizers:** Anthony C. Davison Debbie J. Dupuis Francis W. Zwiers

(École polytechnique fédérale de Lausanne) (HEC Montréal) (Pacific Climate Impacts Consortium, Victoria, BC)

## **Risk Measurement and Regulatory Issues** in Business

#### **Organizers:**

Carole Bernard Michel Dacorogna Steven Vanduffel Ruodu Wang

(Grenoble School of Management) (DEAR-Consulting, Switzerland) (Vrije Universiteit Brussel) (University of Waterloo)

#### Measurement and Control of Systemic Risk mber 25 – 28. 2017

#### Organizers:

Rama Cont 'aul Glasserman Bruno Rémillard

(Imperial College London) (Columbia University (HEC Montréal)

## **Dependence Modeling Tools for Risk Management** October 2 – 5, 2017

#### **Organizers:**

Anne-Laure Fougères (Université Claude-Bernard, Lyon) Johanna G. Nešlehová (McGill University) Matthias Scherer (Technische Universität München)

#### Risk Modeling, Management and Mitigation in Health Sciences December 11 - 14, 2017

#### **Organizers:**

Daniel J. Graham Nicholas P. Jewell Erica Moodie David A. Stephens (Imperial College London) (University of California at Berkeley) (McGill University) (McGill University)

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