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Causality In Risk
And Detection Of
Risk

Granger Causality In Risk And Detection Of Risk

This book is
devoted to the
analysis of

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Risk

causal inference
which is one of
the most
difficult tasks
in data
analysis: when
two phenomena
are observed to
be related, it
is often
difficult to
decide whether
one of them
causally

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influences the other one, or whether these two phenomena have a common cause. This analysis is the main focus of this volume. To get a good understanding of the causal inference, it is important to

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have models of economic phenomena which are as accurate as possible. Because of this need, this volume also contains papers that use non-traditional economic models, such as fuzzy models and

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models obtained
by using neural
networks and
data mining
techniques. It
also contains
papers that
apply different
econometric
models to
analyze real-
life economic
dependencies.

Employing

Page 5/211

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compensation
data provided by

63 banks from 16

European

countries for

the period from

2000 to 2010

this paper

empirically

investigates the

impact of excess

variable

compensation on

bank risk. As a

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main finding, we provide evidence for a risk-increasing impact of excess variable pay for both executive variable cash-based and variable equity-based compensation.

This baseline finding holds

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Risk
under various
robustness
checks, in
particular when
controlling for
likely reverse
causality
between bank
risk and
variable
compensation by
employing Grange
r-causality
tests and

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instrumental
variable
regressions. In
addition,
results from a
large number of
sensitivity
analyses
including board
and banking
characteristics
as well as the
financial crisis
period and the

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quality of a
country's
regulatory
framework
provide further
important
implications for
banking
regulators and
politicians in
Europe.

This book
studies the
information

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spillover among
financial

markets and

explores the

intraday effect

and ACD models

with high

frequency data.

This book also

contributes

theoretically by

providing a new

statistical

methodology with

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comparative
advantages for
analyzing
comovements
between two time
series. It
explores this
new method by
testing the
information
spillover
between the
Chinese stock
market and the

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international
market, futures
market and spot
market. Using
the high
frequency data,
this book
investigates the
intraday effect
and examines
which type of
ACD model is
particularly
suited in

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capturing
financial
duration
dynamics. The
book will be of
invaluable use
to scholars and
graduate
students
interested in
comovements
among different
financial
markets and

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financial market
microstructure

and to investors
and regulation

departments

looking to

improve their

risk management.

We find

nonlinear

feedback between

the stock market

and certain

macroeconomic

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factors. This evidence calls into question the adequacy of these factors as a basis for a linear pricing model. It also means that the interaction between the economy and the stock market is more complicated

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than given by
the simple
relationship in
Chen, Roll and
Ross (1986). It
also suggests
that the
univariate
evidence for
nonlinear
dynamics in the
stock market may
be due to the
complicated

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relationship
between the
macroeconomy and
the stock
market.

Relationships
with Investment
and Risk
Information
Spillover Effect
and
Autoregressive
Conditional
Duration Models

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Risk-Taking
Incentives
Through Excess
Variable
Compensation --
Evidence from
European Banks
Macroeconomic
Uncertainty,
Stock Market
Risk and
Potential

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Risk
Outcomes
Causality
Cryptocurrencies
, Mainstream
Asset Classes
and Risk Factors
- A Study of
Connectedness
***We use Granger-
causality
techniques to
evaluate the
intertemporal***

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relationships among risk, efficiency and capital. We use two different measures of bank efficiency, i.e., cost and profit efficiency, since these measures reflect different managerial

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abilities. One is the ability to manage costs, and the other is the ability to maximize profits. We find that lower cost and profit efficiency Granger-cause increases in credit risk. We

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*also identify that
credit risk
negatively*

*Granger-causes
cost and profit
efficiency, thus
revealing a
bidirectional
relationship
between these
measures. Most
importantly, our*

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results show a positive relationship between capital and credit risk, thus displaying that moral hazard (due to limited liability and deposit insurance) does not apply to our

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sample of cooperative banks. On the contrary, we find evidence that banks with low capital are able to improve their loan quality in subsequent periods. These findings may be

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important to regulators, who should consider banks' business models when introducing new regulatory capital constraints.

This paper examines the relationship between various

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***macroeconomic
variables and
banking stock
returns in order
to find out
significant
sources of
systematic risks
in banking stock
returns in India.
Monthly data for
the period***

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2002-2014

(further divided

into a pre crisis

and a post crisis

period) has been

analysed using

unit root test,

correlation,

regression,

Granger causality

(both short and

long run) and

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cointegration tests. Results reveal that exchange rate, market factor and long term interest rate are significant in explaining banking stock returns in India in total and post

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***crisis periods
(with R Square
being 82% and
87%***

respectively).

Short run

***causality results
reveal***

unidirectional

causality from

long run interest

rate to banking

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*stock returns and
from banking
stock returns to*

market returns.

On the other

hand, long run

causality results

reveal that

inflation and

money supply

Granger cause

bankex while

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**bankex Granger
causes IIP and
short term**

interest rate.

Hence, there

seem to be a lead

lag relationship

between banking

stock returns and

various

macroeconomic

sources of risks.

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We found long run cointegration of banking stock returns with money supply and short run interest rate.

These results provide support to the argument that besides market risk,

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***interest rate risk
and currency risk
are also priced in
banking stock
returns. These
findings are
pertinent for
policy makers,
regulators and
investors at
large.***

This study aims

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to investigate the occurrence of causality in banking risks and its impact on probability of default. This study used individual bank data of five countries, i.e: Indonesia,

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***Malaysia,
Singapore,
Thailand, and the
Philippine. In
order to
investigate
whether there is
causality in
banking risks, we
used VAR-
Granger
Causality model.***

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In addition, OLS regression models are used to investigate the impact of this causality on default probability.

Results of this study revealed that the causality between credit

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risk and liquidity

risk only

occurred in

Malaysia, while

the causality

between credit

risk and interest

rate risk occurred

in the Philippine,

Malaysia,

Thailand, and all

banks in ASEAN.

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However, the impact of the interaction between bank risks on default probability is not significant.

Furthermore, credit risk, bank size, and gross domestic product are significantly

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Risk

***impact
probability of
default.***

***We propose
several
econometric
measures of
systemic risk to
capture the interc
onnectedness
among the
monthly returns***

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Causality In Risk
And Detection Of
Risk
***of hedge funds,
banks, brokers,
and insurance***

***companies based
on principal
components
analysis and
Granger-causality
tests. We find
that all four
sectors have
become highly***

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interrelated over the past decade, increasing the level of systemic risk in the finance and insurance industries. These measures can also identify and quantify financial crisis periods, and seem to

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Risk

***contain
predictive power
for the current
financial crisis.***

***Our results
suggest that
hedge funds can
provide early
indications of
market
dislocation, and
systemic risk***

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Risk

arises from a complex and dynamic network of relationships among hedge funds, banks, insurance companies, and brokers.

Legal Aspects of Automatic Data Processing

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***Dividend Policy
Research in
Finance***

***Sources of
Systematic Risks
in Indian Banking
Stock Returns -
Some Empirical
Evidences***

***An Industrial and
Cross-industrial
Study***

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A Leave-One-Out Approach

This book offers an introduction to wavelet theory and provides the essence of wavelet analysis — including Fourier analysis and spectral analysis; the maximum overlap discrete wavelet transform; wavelet

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variance, covariance, and correlation — in a unified and friendly manner. It aims to bridge the gap between theory and practice by presenting substantial applications of wavelets in economics and finance. This book is the first to provide a comprehensive

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application of wavelet analysis to financial markets, covering new frontier issues in empirical finance and economics. The first chapter of this unique text starts with a description of the key features and applications of wavelets. After an overview of wavelet analysis, successive

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chapters rigorously examine the various economic and financial topics and issues that stimulate academic and professional research, including equity, interest swaps, hedges and futures, foreign exchanges, financial asset pricing, and mutual fund markets. This detail-

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oriented text is descriptive and designed purely for academic researchers and financial practitioners. It assumes no prior knowledge of econometrics and covers important topics such as portfolio asset allocation, asset pricing, hedging

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strategies, new risk measures, and mutual fund performance. Its accessible

presentation is also suitable for post-graduates in a variety of disciplines —

applied economics, financial engineering, international finance, financial

econometrics, and fund management. To

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facilitate the subject of
wavelets,

sophisticated proofs
and mathematics are
avoided as much as
possible when
applying the wavelet
multiscaling method.

To enhance the
reader's
understanding in
practical applications
of the wavelet
multiscaling method,

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this book provides
sample programming
instruction backed by
Matlab wavelet code.

Contents:Methodolog
y: Introduction to
Wavelet

AnalysisMultiscale

Hedge Ratio Between
the Stock and Futures

Markets: A New

Approach Using

Wavelet Analysis and

High Frequency

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Data Modeling the
International Links
Between the Dollar,
Euro and Yen Interest
Rate Swap Markets
Through a
Multiscaling
Approach Long
Memory in Rates and
Volatilities of LIBOR:
Wavelet

Analysis Cross-Listing
and Transmission of
Pricing Information of

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Dually-Listed Stocks:
A New Approach

Using Wavelet

Analysis

On the Relationship Between

Stock Returns and

Risk Factors: New

Evidence From

Wavelet Analysis

Can the Risk Factors

Explain the Cross-

Section of Average

Stock Returns in the

Long Run?

Multiscale
Page 55/211

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Relationships
And Detection Of
Returns and
Inflations:
International
Evidence Mutual Fund
Performance and
Investment Horizon A
New Assessment of
US Mutual Fund
Returns Through a
Multiscaling Approach
Readership: Graduate
students and

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researchers in the
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fields of

econometrics, money

& banking,

investments,

international finance,

financial engineering,

and fund

management. Keywor

ds:Wavelets;Finance;

Economics;Wavelet

Analysis;Multiscaling

MethodKey

Features:This book

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covers the essence of
wavelet analysis —

such as the maximum

overlap discrete

wavelet transform,

wavelet correlation,

and variance — in a

unified manner. It

covers important

topics in finance, such

as portfolio asset

allocation, asset

pricing, hedging

strategies, new risk

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Risk
measures, and mutual
fund performance This

is the first book to

provide a

comprehensive

application of wavelet

analysis to financial

markets, covering

equity, interest swap,

futures, foreign

exchange, and mutual

fund markets The

focus of this book is

descriptive and

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designed purely for
practitioners.

Sophisticate proofs
and mathematics are
avoided as much as
possible when
applying the wavelet
multiscaling method.
Sample instruction
and wavelet code and
output from the
chapters are
presented as an
integral part of the

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textReviews: “ The book targets not only academic researchers, but also practitioners. Its accessible presentation is also suitable for post-graduates in a variety of disciplines. To facilitate the subject of wavelets, sophisticated proofs and mathematics are

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avoided as much as possible when applying the wavelet multiscaling method. ”

Zentralblatt MATH

“ This is a book for the specialist researcher in the subject.

Chapters are specialized and short, with lots of references to the literature. ”

Mathematical
Reviews Clippings

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This paper studies the exposure and contribution of financial institutions to systemic risks in financial markets. We employ three popular indicators of a financial institution's exposure to systemic risks: the systemic risk index (SRISK) and marginal expected shortfall

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(MES) of Brownlees
And Detection Of
Risk
and Engle (2012) and

the conditional Value-
at-Risk (CoVaR) of

Adrian and

Brunnermeier (2011).

We use a primary

database of Taiwan

financial institutions

for our empirical

study. A panel

containing data of

stock market returns

and balance sheets of

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31 Taiwan financial institutions for 2005-2014 is grouped in three categories: financial holding companies, bank companies, and insurance companies. We focus on systemic risk analysis so as to understand the dynamics of volatility, interdependency, and risk during the recent

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financial crisis. We then report the time series dynamics and cross sectional rankings of these systemic risk measures. The main results indicate that although these three measures differ in their definition of the contributions to systemic risk, all are quite similar in

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identifying systemically important financial institutions (SIFIs). Moreover, we find empirical evidence that systemic risk contributions are closely related to certain institution characteristic factors. The results of the Granger causality tests prove that a

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systemic risk measure
is a great alternative
tool for monitoring
early warning signals
of distress in the real
economy.

Diebold and Yilmaz
(2015) recently
introduced variance
decomposition
networks as tools for
quantifying and
ranking the systemic
risk of individual firms.

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The nature of these networks and their implied rankings depend on the choice decomposition method. The standard choice is the order invariant generalized forecast error variance decomposition of Pesaran and Shin (1998). The shares of the forecast error

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variation, however, do not add to unity,

making difficult to compare risk ratings and risks

contributions at two different points in

time. As a solution, this paper suggests

using the Lanne-Nyberg (2016)

decomposition, which shares the order

invariance property.

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To illustrate the differences between both decomposition methods, I analyzed the global financial system during 2001 – 2016. The analysis shows that different decomposition methods yield substantially different systemic risk and vulnerability rankings. This suggests caution

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is warranted when using rankings and risk contributions for guiding financial regulation and economic policy.

The unusual severity of the recent global financial crisis has drawn much attention to systemic risk, particularly its measurement, and the institutions that

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contribute most to it. This paper provides an empirical examination of the systemic risk potential among banking institutions in Asia using CoVaR and Granger causality network approaches. The empirical evidence for a potential systemic crisis among Asia

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banks is ambiguous. The analysis reveals that the degree of interconnectedness has general gone up among banks in Asia. Nevertheless, the causal network among the banks has become less dense after the global financial crisis in 2007-2009. Banks from developed Asia

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economies generally
rank higher compared

to those from

emerging market

counterparts. Finally,

we find that the

greatest contributors

to systemic risk are

not necessarily large

banks.

Causal Inference in

Econometrics

Handbook on

Systemic Risk

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Sovereigns and
Banks in the Euro
Area

Applied Econometrics

A Study on Granger

Causality in the

CAPM.

Risk, Competition and

Efficiency in Banking

Causal analytics

methods can

revolutionize the

use of data to

make effective

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decisions by

revealing how

different choices

affect probabilities

of various

outcomes. This

book presents and

illustrates models,

algorithms,

principles, and

software for

deriving causal

models from data

and for using them

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to optimize decisions with uncertain outcomes. It discusses how to describe and summarize situations; detect changes; evaluate effects of policies or interventions; learn what works best under different

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*conditions; predict
values of as-yet*

unobserved

quantities from

available data; and

identify the most

likely explanations

for observed

outcomes,

including surprises

and anomalies. The

book resents

practical

techniques for

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*causal modeling
and analytics that
practitioners can
apply to improve
understanding of
how choices affect
probabilities of
consequences and,
based on this
understanding, to
recommend
choices that are
more likely to
accomplish their*

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intended objectives. The book begins with a survey of modern analytics methods, focusing mainly on techniques useful for decision, risk, and policy analysis.

Chapter 2

introduces free in-browser software, including the

Causal Analytics

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Risk
Toolkit (CAT)
*software, to enable
readers to perform
the analyses*

*described and to
apply modern
analytics methods
easily to their own
data sets. Chapters
3 through 11 show
how to apply
causal analytics
and risk analytics
to practical risk*

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analysis

*And Detection Of
Risks*
*challenges, mainly
related to public
and occupational
health risks from
pathogens in food
or from pollutants
in air. Chapters 12
through 15 turn to
broader questions
of how to improve
risk management
decision-making by
individuals,*

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groups,

organizations,

institutions, and

multi-generation

societies with

different cultures

and norms for

cooperation. These

chapters examine

organizational

learning,

community

resilience, societal

risk management,

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and
intergenerational
collaboration and
justice in
managing risks.
Risk Management
Post Financial
Crisis: A Period of
Monetary Easing
provides further
insights into
postcrisis
developments in
the global

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Risk

*economic and
financial
environment
including advances
in measuring and
reporting risk and
liquidity.*

*Contributions
come from leading
banks,
international
organisations and
worldrenowned
universities.*

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This paper uses high frequency market value data on credit default swap spreads and intra-day stock prices to measure systemic risk in the insurance sector.

Using the systemic risk measure, we examine the interconnectedness between banks and

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insurers with Granger causality tests. Based on linear and non-linear causality tests, we find evidence of significant bidirectional causality between insurers and banks. However, after correcting for conditional

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heteroskedasticity,
the impact of

banks on insurers
is stronger and of
longer duration
than the impact of
insurers on banks.

Stress tests
confirm that banks
create significant
systemic risk for
insurers but not
vice versa.

Purpose ndash;

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This paper analyzes forecasting problems from the perspective of information extraction. We study circumstances under which the forecast of an economic variable from one domain (country, industry,

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market segment)

should rely on

information

regarding the

same type of

variable from

another domain

even if the two

variables are not

causally linked.

Thus, Granger

causality linking

variables from

different domains

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*may be the rule
and should be
exploited for forec
asting.Design/meth
odology/approach
ndash; The article
applies information
economics, in
particular the
study of rational
information
extraction in order
to shed light on the
debate on causality*

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Causality In Risk
and forecasting. Findings

And Detection Of
ndash; It is

shown that the

rational

generalization of
information across

domains can lead

to effects that are

hard to square

with economic

intuition but are

nevertheless worth

being taken into

consideration for

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Causality In Risk
forecasting.

And Detection Of
Risk
Information from
one domain is
shown to affect
another domain if
there is at least
one common factor
affecting both
domains which is
not (or not yet)
observed when a
forecast has to be
made. The analysis
suggests the

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theoretical possibility that the direction of such effects across domains can be counter-intuitive. In time-series econometrics such effects will show up in estimated coefficients with the

ldquo;wrongrdquo; sign. Practical

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*implications ndash;
This study helps
forecasters by
indicating a wider
set of variables
relevant for
prediction. The
analysis offers a
theoretical basis
for using lagged
values from the
type of variable to
be forecast but
from another*

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domain. E.g., when forecasting the bond risk spread in one country we suggest introducing in the time-series model the lagged value of the risk spread from another country. Two empirical examples illustrate this principle for

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*specifying models
And Detection Of
for prediction.*

*While we limit the
application to risk
spreads and
inflation rates the
approach
suggested here is
widely applicable.
Originality/value
ndash; The present
study builds on a
probability
theoretical analysis*

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*to inform the
specification of
time-series
forecasting
models.*

A Wavelet

Multiscale

Approach

A Period of

Monetary Easing

Note

Small Business

Lending and Credit

Risk

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And Detection Of

*Systemic Risk and
the Inter-*

Connectedness

Between Banks

and Insurers

Measuring

Systemic Risk

Potential Across

Banks in Asia

Granger-causality

measures of

interconnectedness

between financial

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Causality In Risk

And Detection Of

Risk

institutions are useful indicators of systemic risk (Billio et al., 2012) [Journal of Financial Economics], as they help in evaluating how far the distress of one institution is disseminated across the whole of the financial system through networks.

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Causality In Risk

And Detection Of

Risk

*This article provides
a critical*

assessment of

Granger-causality

networks, showing

that they can lead to

inconsistent

measures of

systemic risk

contributions

because of the

presence of

spurious causalities

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*causality in risk
and detection of
risk*
arising from indirect
contagion effects.

*The traditional
solutions for
controlling for these
effects using
inference on
conditional Granger-
causality lead to the
curse of
dimensionality
though. To solve
this, we provide a*

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measure of financial network systemic risk contributions that is based on the leave-one-out (LOO) concept. For a given financial institution, the new measure evaluates how far the total number of significant Granger-causalities breaks

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And Detection Of

Risk

down when this institution is excluded from the system. We control for spurious causalities between the remaining institutions due to the indirect contagion effect of the excluded financial institution using a conditional

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Granger-causality test, which is free of the curse of dimensionality.

Empirical applications are conducted using daily market returns for a sample of the world's largest banks. The results show that our measure gives a

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*meaningful ranking
of the systemic
importance of
financial institutions
that is consistent
with the ranking of
global systemically
important banks (G-
SIBs) provided by
the Financial
Stability Board
(FSB). Moreover,
our measure is*

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Risk

shown to be a robust and significant early-warning indicator of large losses from a systemic event, and is strongly driven by balance-sheet variables related to size, business model and profitability.

This book consists

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Causality In Risk

And Detection Of

Risk
*of two essays on
new approaches for
the Arbitrage Pricing*

Theory and the

Present Value

Model, and one

essay on cross-

sectional

correlations in panel

data. The new

approaches are

designed to study a

large number of

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securities over time.

They can be

employed by

security analysts to

discover market

anomalies without

assuming

observable factors

or constant risk

premium. The book

shows how these

two approaches can

be used to

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determine how many systematic factors affect the U.S. stock market.

*Contents: Abstract
Do We Have to Know Betas? An Autoregressive Method for Testing the APT Variable-Expected Returns and the Present Value Model: A*

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Causality In Risk

And Detection Of

Risk

Panel

Study Application of

the Newey-West

Matrix for Correction

of

Heteroskedasticity

and Cross-Sectional

Correlation

Readership:

Traders, financial

analysts and

brokers. keywords:

This study attempts

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*Causality In Risk
And Detection Of
Risk*
to identify and trace
inter-linkages

*between sovereign
and banking risk in
the euro area. To
this end, we use an
indicator of banking
risk in each country
based on the
Contingent Claim
Analysis literature,
and 10-year
government yield*

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Risk

spreads over Germany as a measure of sovereign risk. We apply a dynamic approach to testing for Granger causality between the two measures of risk in 10 euro area countries, allowing us to check for contagion in the

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form of a significant and abrupt increase in short-run causal linkages. The empirical results indicate that episodes of contagion vary considerably in both directions over time and within the different EMU countries.

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Significantly, we find that causal linkages tend to strengthen particularly at the time of major financial crises. The empirical evidence suggests the presence of contagion, mainly from banks to sovereigns.

This paper tests the

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Causality In Risk
And Detection Of
Risk

interrelationships between risk, competition and efficiency in the Chinese banking industry over the period 2003-2013 under a Granger Causality test. The current study contributes to the empirical research by using an

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Risk

*Efficiency-adjusted
Lerner index and
stability inefficiency
as the indicators of
competition and
insolvency risk and
more importantly, it
is the first piece of
research testing the
interrelationships
between different
types of risk,
efficiency and*

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Risk

competition in the context of Chinese banking. The results show that Chinese commercial banks with higher levels of efficiency have higher credit risk and insolvency risk, but lower liquidity risk and capital risk. Higher competition leads to lower credit

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Risk

risk, lower

insolvency risk, but

higher liquidity risk.

The results further

show that Chinese

commercial banks

with higher credit

risk and insolvency

risk have higher

efficiency, but the

impact is significant

and negative for

liquidity risk and

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Causality In Risk

*capital risk. Finally,
it is found that lower
liquidity risk*

*increases the
market power (lower
the competitive
condition) in the
Chinese banking
industry.*

*The Determinants of
the Model-Free
Positive and
Negative Volatilities*

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*Causality In Risk
And Detection Of
Risk
Business Innovation
and Development in
Emerging
Economies
Financial Signal
Processing and
Machine Learning
Granger Causality
Evidence*

*Measuring the
Propagation of
Financial Distress*

Page 122/211

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Causality In Risk

with Granger-

Causality Tail Risk

Risk
Networks

The relationship between default risk and equity returns is investigated in this study from an industrial and economic cycle

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Causality In Risk

And Detection Of

Risk

**decomposition
point of view.**

**The portfolio
approach and
Fama-MacBeth
regression are
used in the
analysis. This
dissertation
provides
evidence that
investors**

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charged a premium for stocks with both lower and higher credit risks. However, the specific relationship is different across industries and economic cycles. This study also

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Risk

notices two unique patterns of the banking industry when it comes to default risk. First, higher default risks are more likely to be compensated by higher returns. Second, as

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Risk

**compared to
other industries,
the higher
default risk of
the banking
industry is
accompanied
with larger
banks;
furthermore,
this positive
relationship**

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only exists during the post-1980 period. The Granger Causality tests suggest that the default risk of the banking industry is more likely to cause the default risk

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of other industries, not vice versa. The significance of this causality is related to an industry's dependence on the banking industry. This study further explores the

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**possibility
whether the
change of bank
default risk is a
systematic risk.
The empirical
results from the
Fama-MacBeth
approach show
that the change
of bank default
risk affects the**

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equity returns of other industries only during the economic contraction stages. In addition, this effect is slightly negative, indicating that during the economic

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Risk

**contraction
periods the
increase of bank
default risk
actually drives
funds to flow
from the
banking
industry to
other industries
in a period as
short as one**

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Risk

month.

Small Business

Lending and

Credit

RiskGranger

Causality Eviden

ceInformation

Spillover Effect

and

Autoregressive

Conditional

Duration Models

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Causality In Risk

And Detection Of

Risk

Routledge
Although the
theme of the
monograph is
primarily
related to
“Applied
Econometrics”,
there are
several
theoretical
contributions

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And Detection Of

Risk

**that are
associated with
empirical
examples, or
directions in
which the novel
theoretical ideas
might be
applied. The
monograph is
associated with
significant and**

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Risk

novel

contributions in

theoretical and

applied

econometrics;

economics;

theoretical and

applied financial

econometrics;

quantitative

finance; risk;

financial

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Causality In Risk

And Detection Of

Risk

**modeling;
portfolio
management;
optimal hedging
strategies;
theoretical and
applied
statistics;
applied time
series analysis;
forecasting;
applied**

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mathematics;

energy

economics;

energy finance;

tourism

research;

tourism finance;

agricultural

economics;

informatics;

data mining;

bibliometrics;

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**and
international
rankings of
journals and
academics.
In this
document I
study the effects
of the macro
volatility on the
stock market
volatility,**

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**relying on the
assumptions of
Lechner (2010)
for potential-
outcomes
causality. This is
done at the
Colombian level
with a VAR
model and at
the
international**

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Risk

**level using a
dynamic panel
data model with
unobserved
heterogeneity.
As in Diebold
and Yilmaz
(2008), the
results show
that
fundamental
risk or volatility**

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Causality In Risk
And Detection Of
Risk

Granger-causes movements in the systematic risk of asset markets. Also, I argue that assumptions for Granger causality to imply Potential Outcomes causality hold.

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Risk

**Econometric
measures of
systemic risk in
the finance and
insurance
sectors
New Methods
for the
Arbitrage
Pricing Theory
and the Present
Value Model**

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**Default Risk in
Equity Returns
Causal Analytics
for Applied Risk
Analysis**

Risk

Management

Post Financial

Crisis

Nonlinearity and

Endogeneity in

Macro-Asset

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Pricing

In this paper we analyze the role of macroeconomic and financial determinants in explaining stock market volatilities in the U.S. market. Both implied and realized volatility are computed model-

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free and decomposed into positive and negative components, thereby allowing us to compute directional volatility risk premia. We capture the behavior of each component of implied volatility

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Risk
*and risk premium in
relation to their
different*

*determinants. The
negative implied
volatility appears to
be linked more
towards financial
conditions variables
such as uncertainty
and geopolitical risk
indexes, whereas*

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Risk

positive implied

volatility is driven

more by macro

variables such as

inflation and GDP.

There is a clear shift

in importance from

macro towards

financial

determinants

moving from the pre

towards the post

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*financial crisis. A
mixed frequency
Granger causality
approach uncovers
causality
relationships
between volatilities
and risk premia and
macro variables and
vice versa, a finding
which is not
detected with a*

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And Detection Of
Risk
*conventional low
frequency VAR
model.*

*Offers insights into
economic systems as
packages containing
multiple real options
where the rational
exercise of these
options then shapes
the outcomes from
the system. This title*

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also includes chapters that explore the use of commodities like oil as a means of improving the diversification of portfolios containing equities. The banking and finance industry plays a significant

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Causality In Risk

*role in the economy
of a nation. As such,*

continuous research

and up-to-date feeds

are necessary for it

to stay competitive

and resilient. Due to

its revolving and

dynamic nature as

well as its

significance and

interlinkages with

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other industries, a well-functioning banking and finance system is vital in

safeguarding the interest of all stakeholders.

Banking and Finance covers a wide range of essential topics

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highlighting major issues related to banking and finance. The book is rich with empirical evidence, scientific researches, best practices, and recommendations, making it a compact yet handy reference for readers,

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*causality in risk
and detection of
risk*
*especially those who
are in the field of
banking and
finance.*

*We investigate
whether the
accusations raised
by the popular press
regarding the
potential
destabilizing force
of sovereign wealth*

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And Detection Of

Risk

*fund investment
have merit.*

*Specifically, we
examine the effect
of sovereign wealth
fund (SWF)
investment on
return and volatility,
both for the target
firm and the local
market index. We
find evidence of*

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Risk

both a reduction of

target returns and

risk, but find that

risk is not

sufficiently reduced

to offset the change

in return. We also

find that the market

wide return to risk

ratios indicate

uncompensated risk

following SWF

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Causality In Risk
And Detection Of
Risk

*investment for the
market as a whole.*

Firm volatility

decomposition

suggests that both

total risk and

idiosyncratic risk

relative to returns

are not compensated

at the same level

following SWF

investment as they

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Risk

were preceding it.

In a limited

Granger causality

analysis, we find

that SWF

investment Granger-

causes the firm level

return/risk relation

to deteriorate. We

do not, however,

find that the media

Granger-causes the

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Risk

*poor performance.
The decrease in
return without a
corresponding
decrease in volatility
suggests that
sovereign wealth
fund investment
could be potentially
destabilizing.*

*Generalization of
Information,*

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Causality In Risk

Granger Causality,

And Detection Of

Risk

Sovereign Wealth

Fund Investments

and Market

Destabilization

Exploring

Nonlinearities in

Financial Systemic

Risk

Proceedings of the

5th Sebelas Maret

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***International
Conference on
Business,
Economics and
Social Sciences
(SMICBES 2018),
July 17-19, 2018,
Bali, Indonesia
Relationship
Analysis Between
Bank Risks and
Probability of***

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Risk

*Default in ASEAN.
Improving Risk
Analysis*

We propose a new methodology of assessing the effects of individual institution's risk on the others and on the system as a whole. We build

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Causality In Risk

upon the
And Detection Of
Risk
Conditional Value-
at-Risk approach,

however, we
introduce the
explicit Granger
causal linkages
and we account
for possible
nonlinearities in
the financial time
series. Conditional

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Causality In Risk

Value-at-Risk-
And Detection Of
Risk
Nonlinear Granger
Causality, or

NCoVaR as we call

it, has regular

asymptotic

properties which

makes it

particulary

appealing for

practical

applications. We

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And Detection Of

Risk

test our approach
empirically and
assess the

contribution of
the euro area
financial

companies to the
overall systemic
risk. We find that
only a few

financial

institutions pose a

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Risk

serious ex ante
threat to the
systemic risk,
whereas, given
that the system is
already in trouble,
there are more
institutions which
hamper its
recovery.

Moreover, we
discover non-

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Causality In Risk
negligible
And Detection Of
nonlinear
Risk

structures in the
systemic risk
profile of the euro
zone.

The modern
financial industry
has been required
to deal with large
and diverse
portfolios in a

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Risk

variety of asset classes often with limited market data available.

Financial Signal Processing and Machine Learning unifies a number of recent advances made in signal processing and machine

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Risk

learning for the
design and
management of
investment
portfolios and
financial
engineering. This
book bridges the
gap between
these disciplines,
offering the latest
information on

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key topics

including

characterizing

statistical

dependence and

correlation in high

dimensions,

constructing

effective and

robust risk

measures, and

their use in

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portfolio
And Detection Of
Risk

optimization and rebalancing. The book focuses on signal processing approaches to model return, momentum, and mean reversion, addressing theoretical and implementation

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aspects. It highlights the connections between portfolio theory, sparse learning and compressed sensing, sparse eigen-portfolios, robust optimization, non-Gaussian data-

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driven risk
measures,
graphical models,
causal analysis
through temporal-
causal modeling,
and large-scale
copula-based
approaches. Key
features:

Highlights signal
processing and

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machine learning
And Detection Of
as key approaches

Risk
to quantitative

finance. Offers

advanced

mathematical

tools for high-

dimensional

portfolio

construction,

monitoring, and

post-trade

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analysis problems.

And Detection Of

Risk

Presents portfolio

theory, sparse

learning and

compressed

sensing, sparsity

methods for

investment

portfolios.

including eigen-

portfolios, model

return,

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momentum, mean

And Detection Of
reversion and non-

Risk

Gaussian data-

driven risk

measures with

real-world

applications of

these techniques.

Includes

contributions

from leading

researchers and

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Risk

practitioners in
both the signal
and information
processing
communities, and
the quantitative
finance
community.

Business

Innovation driven
by the

advancement of

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technology has dramatically changed the business landscape over recent years, not only in advanced countries but also in emerging markets. It is expected that business

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innovation could
help achieve
economic

inclusion, which
has been a global
initiative over the
last decade,
creating
opportunities for
all people to
benefit from the
economic

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development.

And Detection Of

Risk

These proceedings

provide an outlet

for discussing the

importance of

business

innovation,

especially in

emerging

countries in

helping to reach

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Risk

inclusive
economies. The
papers cover the
subject areas
management,
accounting,
finance,
economics and
social sciences.
We investigate
connectedness
within and across

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Risk

two major groups
or assets: i) five
popular
cryptocurrencies,
and ii) six major
asset classes plus
two commonly
employed risk
factors. Granger-
causality tests
uncover six direct
channels of

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And Detection Of
Risk

causality from the
elements of the
mainstream

assets/risk factors

group to digital

assets. On the

other hand, there

are two

statistically

significant causal

links going in the

other direction. In

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Risk

order to provide
some perspective
on the magnitude
of the uncovered
linkages we
supplement the
analysis by
estimating
networks from
forecast error
variance
decompositions.

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The estimated connectedness within the groups is relatively large, whereas the linkages across the two groups are small in comparison.

Namely, less than 2.2 percent of future uncertainty

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Risk

of any
cryptocurrency is
sourced from all
non-crypto assets
combined, while
the joint
contribution of all
digital assets to
non-crypto
uncertainty does
not exceed 1.5
percent.

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Risk

Do Cooperative
Banks Suffer from
Moral Hazard

Behaviour?

Evidence in the

Context of

Efficiency and Risk

A Tale of Two

Crises

Estimation and

Model-based

Combination of

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Risk

Causality

Networks

An Introduction to

Wavelet Theory in

Finance

'Sleeping with the

Enemy' or 'An

Ounce of

Prevention'

Replication

Using the test of

Granger-causality in

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And Detection Of
Risk

tail of Hong et al.

(2009), we define and

construct Granger-

causality tail risk

networks between 33

systemically

important banks (G-

SIBs) and 36

sovereign bonds

worldwide. Our

purpose is to exploit

the structure of the

Granger-causality

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Risk

tail risk networks to identify periods of distress in financial markets and possible channels of systemic risk propagation.

Combining measures of connectedness of these networks with the ratings of the sovereign bonds, we propose a flight-to-quality indicator to

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Risk

identify periods of turbulence in the market. Our measure clearly peaks at the onset of the European sovereign debt crisis, signaling the instability of the financial system. Finally, we use the connectedness measures of the

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And Detection Of

Risk

**networks to forecast
the quality of
sovereign bonds. We
find that
connectedness is a
significant predictor
of the cross-section
of bond quality.**

**Improving Risk
Analysis shows how
to better assess and
manage uncertain
risks when the**

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And Detection Of

Risk

**consequences of
alternative actions
are in doubt. The
constructive methods
of causal analysis
and risk modeling
presented in this
monograph will
enable to better
understand
uncertain risks and
decide how to
manage them. The**

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And Detection Of
Risk

book is divided into three parts. Part 1 shows how high-quality risk analysis can improve the clarity and effectiveness of individual, community, and enterprise decisions when the consequences of different choices are

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Risk

uncertain. Part 2 discusses social decisions. Part 3 illustrates these methods and models, showing how to apply them to health effects of particulate air pollution. "Tony Cox's new book addresses what risk analysts and policy makers most need to

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know: How to find out what causes what, and how to quantify the practical differences that changes in risk management practices would make. The constructive methods in Improving Risk Analysis will be invaluable in helping

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Risk

practitioners to deliver more useful insights to inform high-stakes decisions and policy, in areas ranging from disaster planning to counter-terrorism investments to enterprise risk management to air pollution abatement policies. Better risk

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And Detection Of

Risk

management is possible and practicable;

Improving Risk

Analysis explains

how." Elisabeth Pate-

Cornell, Stanford

University

"Improving Risk

Analysis offers

crucial advice for

moving policy-

relevant risk

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And Detection Of

Risk

**analyses towards
more defensible,
causally-based
methods. Tony Cox
draws on his
extensive experience
to offer sound advice
and insights that will
be invaluable to both
policy makers and
analysts in
strengthening the
foundations for**

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**important risk
analyses. This much-
needed book should
be required reading
for policy makers
and policy analysts
confronting
uncertain risks and
seeking more
trustworthy risk
analyses." Seth
Guikema, Johns
Hopkins University**

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"Tony Cox has been a trail blazer in quantitative risk analysis, and his new book gives readers the knowledge and tools needed to cut through the complexity and advocacy inherent in risk analysis. Cox's careful exposition is detailed and

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Causality In Risk

And Detection Of

Risk

**thorough, yet
accessible to non-
technical readers
interested in
understanding
uncertain risks and
the outcomes
associated with
different mitigation
actions. Improving
Risk Analysis should
be required reading
for public officials**

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**responsible for
making policy
decisions about how
best to protect public
health and safety in
an uncertain world."**

**Susan E. Dudley,
George Washington
University**

**Experts in the field
provide an
introduction to the
multifaceted aspects**

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**of this critically
important topic.**

**At the heart of the
Capital Asset Pricing
Model (CAPM) lies
the concept of
systematic risk. The
systematic risk of a
security is that
component of the
total risk of the
security that is
explained by market**

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risk. This is captured through the regression of security returns on market returns. The regression coefficient represents the sensitivity of returns of the security to changes in market returns. Current developments in

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econometric theory, however, undermine the simplicity of this approach. Firstly, there should be some form of causality from changes in market returns to changes in security returns. In particular, Granger causality from market returns to

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security returns must hold. Secondly, in order for the regression to be meaningful, the time series should be stationary. In particular, the presence of a unit root would undermine the significance of the regression

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coefficient, and therefore threaten the entire basis of the CAPM. It is in this context that Granger causality and stationarity should be examined for the security line. This approach may be extended to determining the macroeconomic

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**variables that
influence asset
returns in general.**

**Fumigation and
Reuse of Broiler
Litter**

**Systemic Risk,
Financial Markets,
and Performance of
Financial**

Institutions

**Banking and Finance
Evidence from China**

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**Potential Pitfalls and
a Simple Solution**

Variance

Decomposition

Networks