

## **1: BDA Helsinki 1**

### **Event summary and report of partners**

Title of the workshop – Big Data Analysis I

Venue: Supervisory Authority, Helsinki, Finland

Date: March 4th, 2019

Hosting university: Tampere University (earlier University of Tampere), Finland

Regulator/supervisor: FIN-FSA

### **The speakers**

- 1) Ph.D. student Mikko Rikkinen, Tampere University, Finland
- 2) Professor (Insurance Science) Lasse Koskinen, Tampere University, Finland
- 3) Ph.D. Antti Talonen (Insurance Science), Tampere University, Finland

### **Number and role of participants**

About 30 in room, about 20 followed slides + audio. Experts and managers of Finnish Supervisory Authority and Bank of Finland

### **The main topics**

- 1) Overview of the project
- 2) Topics of Training (Use Cases)
- 3) Peer to Peer Lending

### **The main results**

- 1) Understanding of main ideas behind BDA.
- 2) Overview of use cases and their techniques. Main principles and techniques.
- 3) Concrete understanding of Peer to Peer Lending

### **Feedback, new insights and main take aways**

United different supervisory experts.

Valuable communication between supervisors and researchers.

### **Further remarks**

Participants will stay involved through follow up communications by Tampere University.

## **2: BDA Helsinki 2**

### **Event summary and report of partners**

Title of the workshop - Big Data Analysis II

Venue: Supervisory Authority, Helsinki, Finland

Date: March 22th, 2019

Hosting university: Tampere University (earlier University of Tampere), Finland

Regulator/supervisor: FIN-FSA

### **The speakers**

- 1) Research Director Tapio Nummi, Tampere University
- 2) Professor (Insurance Science) Lasse Koskinen, Tampere University, Finland
- 3) Ph.D. Antti Talonen (Insurance Science), Tampere University, Finland

### **Number and role of participants**

About 20 in room, about 20 followed slides + audio. Experts and managers of Finnish Supervisory Authority and Bank of Finland

### **The main topics**

- 1) To test and illustrate microsimulation results (Insurance application)
- 2) USE CASE I
- 3) USE CASE II

### **The main results**

- 1) Understanding the main benefits and risks of Peer to Peer Lending
- 3) Understanding important mathematical/statistical background.
- 4) Ideas of use cases I and II

### **Feedback, new insights and main take aways**

Some experts were more interested in Peer to Peer to Lending and some were more interested in Peer to Peer Insurance.

### **Further remarks**

Participants will stay involved through follow up communications by Tampere University.

### **3: BDA Helsinki 3**

#### **Event summary and report of partners**

Title of the workshop - Big Data Analysis III

Venue: Supervisory Authority, Helsinki, Finland

Date: April 24th, 2019

Hosting university: Tampere University (earlier University of Tampere), Finland

Regulator/supervisor: FIN-FSA

#### **The speakers**

1) Professor (Insurance Science) Lasse Koskinen, Tampere University, Finland

2) Ph.D. Antti Talonen (Insurance Science), Tampere University, Finland

#### **Number and role of participants**

About 20 in room, about 20 followed slides + audio. Experts and managers of Finnish Supervisory Authority and Bank of Finland

#### **The main topics**

1) Use Cases III-V

2) Supervisory issues related to the Use Cases

#### **The main results**

1) Concrete understanding new supervisory aspects related to Use Cases III-V

2) Supervisors' internal model supervisory tools are useful in Peer to Peer lending context

#### **Feedback, new insights and main take aways**

Thorough understanding of model structure is needed in managing the model risk related to BDA.

Use Cases provide good examples of modern technological applications.

#### **Further remarks**

Participants will stay involved through follow up communications by Tampere University

#### **4: BDA Stockholm 1**

##### **Event summary and report of partners**

Title of the workshop - Big Data Analysis I

Venue: Supervisory Authority, Stockholm, Finland

Date: March 6th, 2019

Hosting university: Tampere University (earlier University of Tampere), Finland

Regulator/supervisor: SWE-FSA

##### **The speakers**

- 1) Ph.D. student Mikko Rikkinen, Tampere University, Finland
- 2) Professor (Insurance Science) Lasse Koskinen, Tampere University, Finland
- 3) Ph.D. Antti Talonen (Insurance Science), Tampere University, Finland

##### **Number and role of participants**

About 10 experts and managers of Swedish Supervisory Authority.

##### **The main topics**

- 1) Overview of the project
- 2) Topics of Training (Use Cases)
- 3) Peer to Peer Lending

##### **The main results**

- 1) Understanding of main ideas behind BDA.
- 2) Overview of use cases and their techniques. Main principles and techniques.
- 3) Concrete understanding of Peer to Peer Lending

##### **Feedback, new insights and main take aways**

United different supervisory experts.

Valuable communication between supervisors and researchers

There are major legal differences (related to Peer to Peer lending) between countries

##### **Further remarks**

Participants will stay involved through follow up communications by Tampere University.

## **5: BDA Stockholm 2**

### **Event summary and report of partners**

Title of the workshop - Big Data Analysis II

Venue: Supervisory Authority, Stockholm, Sweden

Date: March 15th, 2019

Hosting university: Tampere University (earlier University of Tampere), Finland

Regulator/supervisor: SWE-FSA

### **The speakers**

- 1) Professor Juho Kanninen (Finance and big data), Tampere University
- 2) Professor (Insurance Science) Lasse Koskinen, Tampere University, Finland
- 3) Ph.D. Antti Talonen (Insurance Science), Tampere University, Finland

### **Number and role of participants**

About 10 experts and managers of Swedish Supervisory Authority

### **The main topics**

- 1) Machine learning and complex networks
- 2) USE CASE I
- 3) USE CASE II

### **The main results**

- 1) Understanding the main benefits and risks of Peer to Peer Lending
- 3) Understanding important mathematical/statistical background.
- 4) Ideas of use cases I and II

### **Feedback, new insights and main take aways**

Some experts were more interested in Peer to Peer to Lending and some were more interested in Peer to Peer Insurance.

Transparency of models is a major concern for supervisors.

### **Further remarks**

Participants will stay involved through follow up communications by Tampere University.

## **6: BDA Stockholm 3**

### **Event summary and report of partners**

Title of the workshop - Big Data Analysis III

Venue: Supervisory Authority, Stockholm, Sweden

Date: May 8th, 2019

Hosting university: Tampere University (earlier University of Tampere), Finland

Regulator/supervisor: SWE-FSA

### **The speakers**

- 1) Professor (Insurance Science) Lasse Koskinen, Tampere University, Finland
- 2) Ph.D. Antti Talonen (Insurance Science), Tampere University, Finland

### **Number and role of participants**

About 10 experts and managers of Swedish Supervisory Authority.

### **The main topics**

- 1) Use Cases III-V
- 2) Supervisory issues related to the Use Cases

### **The main results**

- 1) Concrete understanding new supervisory aspects related to Use Cases III-V
- 2) Supervisors' internal model supervisory tools are useful in Peer to Peer lending context

### **Feedback, new insights and main take aways**

Thorough understanding of model structure is needed in managing the model risk related to BDA.

Use Cases provide good examples of modern technological applications.

### **Further remarks**

Participants will stay involved through follow up communications by Tampere University