

IADIS European Conference on Data Mining 2011

CONFERENCE PROGRAM

Sunday 24th, July 2011

08:30-18:30 Welcome Desk

09:45-10:00 Session O – Opening Session
(Room: Space 100)

OPENING SESSION

Prof. Ajith P. Abraham and Prof. Pedro Isaías

10:00-11:00 Session KL1 – Keynote Presentation
(Room: Space 100)

**KNOWLEDGE DISCOVERY APPLICATIONS AS
DISTRIBUTED WORKFLOWS OF SERVICES**

*Professor Domenico Talia, University of Calabria & ICAR-CNR,
Italy*

11:00-11:30 Coffee Break

11:30-13:00 Session FP 24.1
Classification

(Room: Space 3C)

Chair: Borianna Vatchova

**APPLICATIONS OF DATA MINING TO POSTOPERATIVE
PAIN MANAGEMENT (F081)**

*Yuh-Jyh Hu, Rong-Hong Jan, Kuochen Wang, Yu-Chee Tseng,
Tien-Hsiung Ku and Shu-Fen Yang*

**PREDICTION OF SWITCHING INTENTION TO THE
INTERNET PHONE THROUGH THE ANALYSIS OF
CUSTOMER PREFERENCE (F024)**

Sung Ho Ha, Eun Kyoung Kwon and Do Hyeong Kim

**A VIEW INSIDE THE CLASSIFICATION WITH
NON-NESTED GENERALIZED EXEMPLARS (F048)**

Daniela Zaharie, Lavinia Perian and Viorel Negru

13:00-14:30 Lunch Break

14:30-16:30 Session FSP 24.2

Data Mining Applications // Forecasting

(Room: Space 3C)

Chair: Malcolm Keech

**MOBILE MIND: A FULLY MOBILE PLATFORM BASED
MACHINE LEARNING APPLICATION (F031)**

Ahmet Selman Bozkir and Ebru Akcapinar Sezer

**DOMAIN SPECIFIC SERVICES IN HOME CARE
SCENARIOS – PROBABILISTIC PREDIAGNOSIS (F051)**

Bjoern-Helge Busch and Ralph Welge

**AN INTELLIGENT DIAGNOSTIC SYSTEM FOR DIABETES
USING RULE BASED REASONING AND
OBJECT-ORIENTED METHODOLOGY (S042)**

Vimala Balakrishnan and Vithyatheri Govindan

**CUSTOMER SATISFACTION ANALYSIS RELATED WITH
INTERNET ACCESS LINE (S043)**

*Takeshi Kurosawa, Shinsuke Shimogawa, Motoi Iwashita and Shouji
Kouno*

**INTERACTIVE ANOMALY DETECTION IN TIME SERIES
RESULTING FROM LOCAL TRAFFIC MEASUREMENTS
(S066)**

Andreas Theissler, Jochen Palmer, Hubert Rehborn and Ian Dear

16:30-17:00 Coffee Break

17:00-18:30 Session FSP 24.3

Bioinformatics // Other

(Room: Space 3C)

Chair: Ajith P. Abraham

TAG SNP SELECTION USING GA-SVM APPROACH (F103)

Ilhan Ilhan, Yunus Emre Göktepe and Şirzat Kahramanlı

**MINING FOR CHEST PAIN DIAGNOSIS FOR THE
ELDERLY IN AN EMERGENCY DEPARTMENT (S037)**

Sung Ho Ha, Zhen Yu Zhang and Seong Hyeon Joo

**INCREASING THE PREDICTION ACCURACY OF PSEAAC
IN PROTEIN-PROTEIN INTERACTIONS (S108)**

*Yunus Emre Göktepe, İlhan İlhan, Ergun Elitok and Şirzat
Kahramanlı*

ILP MADE EASY (S078)

André Santos and Rui Camacho

Monday 25th, July 2011

08:30-15:30 Welcome Desk

09:00-11:00 Session FSP 25.1

Web mining // Other

(Room: Space 3C)

Chair: Daniela Zaharies

**DISCRIMINATORY ASSOCIATION ANALYSIS ON
SEMI-STRUCTURED DATA (F053)**

Binh Luong Thanh and Franco Turini

**A CLUSTERING ALGORITHM BASED ON A RECURSIVE
FUNCTION OF DISTANCE AND SIMILARITY (F096)**

*José Luis Castillo Sequera, José R. Fernández del Castillo Díez and
León González Sotos*

**WHO TWEETS: DETECTING USER TYPES AND TWEET
QUALITY USING SUPERVISED CLASSIFICATION (S070)**

Christopher Horn, Elisabeth Lex and Michael Granitzer

**TIME SERIES PROCESSING FOR WRAPPER
MAINTENANCE (S046)**

YingJu Xia, Shu Zhang, YuHang Yang and Hao Yu

OPINION-MINING IN WEBLOGS (S068)

*Daniel Volkant, Wilhelm Schwieren, Sean Humphrey, Jürgen Karla,
Michael Wiederhold, Simon Müller and Roy Prayikulam*

11:00-11:30 Coffee Break

11:30-12:40 Session FSP 25.2

Pre-processing techniques // Clustering // Other

(Room: Space 3C)

Chair: José Luis Castillo Sequera

**PREPROCESSING MINUTES OF THE MEETING
DOCUMENTS FOR SEARCH AND RETRIEVAL (F069)**

Caslon Chua and Clinton Woodward

**PARALLEL MODIFIED PREFIX-SPAN: DESIGN AND
IMPLEMENTATION (S045)**

Valerio Grossi and Andrea Romei

**EXTRACTING MAXIMALLY CONNECTED SUB-GRAPHS
USED FOR COMMUNITY GENERATION (S072)**

Lennart Isaksson, Peeyush Kumar and M. Saravanan

13:00-14:30 Lunch Break

14:30-15:30 Poster Session

(Room: Space 3C)

Chair: Ajith P. Abraham

A PREFERENCE BASED MULTI RESPONSE DECISION TREE APPROACH FOR QUALITY IMPROVEMENT IN MANUFACTURING (P022)

Leman Esra Dolgun, Arif Ilker İpekçi and Gülser Köksal

APPLYING CLASSIFICATION TECHNIQUES TO DETERMINE IPO RETURNS IN THE IPO MARKET (P026)

You-Shyang Chen, Chaang-Yung Kung, Ming-Yuan Hsieh and Wen-Ming Wu

USING TURBIDITY DATA FOR ON-LINE MONITORING THE FLOC DIAMETER IN A COAGULATION PILOT PLANT: PROVE BY IMAGE ANALYSIS (P033)

Wen Po Cheng, Ruey Fang Yu and Jen Neng Chang

PATTERN ANALYSIS OF FUNCTIONAL IMAGING DATA OF CHILD HEARING LOSS (P041)

Yongmin Chang, Sang-Heun Lee and Jin-Ho Cho

VARIABLE SELECTION FOR PREDICTING FINANCIAL DISTRESS: USE OF GRASP METAHEURISTIC (P060)

Silvia Casado and Joaquín A. Pacheco

AN EDUCATIONAL LIBRARY BASED ON CLUSTERS OF SEMANTIC PROXIMITY (P102)

Henrique Alves and Álvaro Figueira

11:30-13:20 Session FSP 26.2

Core Data Mining Topics // Data streams mining

(Room: Space 3C)

THE ADVANTAGE OF CAREFUL IMPUTATION SOURCES IN SPARSE DATA-ENVIRONMENT OF RECOMMENDER SYSTEMS: GENERATING IMPROVED SVD-BASED RECOMMENDATIONS (F020)

Mustansar Ali Ghazanfar and Adam Prugel-Bennett

EXCLUSIVE SEQUENTIAL PATTERNS AND THEIR GRAPHICAL REPRESENTATION (F063)

Jing Lu, Weiru Chen and Malcolm Keech

DATA AGGREGATION QUALITY CONTROL (F047)

Iлона Murynets and Wei Jiang

LOGICAL METHOD FOR KNOWLEDGE DISCOVERY BASED ON REAL DATA SETS (S018)

Boriana Vatchova

13:20 Best Paper Awards Ceremony and Closing Session

(Room: Space 3C)

Prof. Ajith P. Abraham and Prof. Pedro Isaiás

15:45 Tour and Conference Dinner

Tuesday 26th, July 2011

08:30-13:30 Welcome Desk

09:00-11:00 Session FP 26.1

Databases

(Room: Space 3C)

Chair: Iлона Murynets

EQUIVALENT RANGE QUERIES IN REVERSE SKYLINE COMPUTATIONS (F099)

Sue-Chen Hsueh, Ming-Yen Lin and Kuo-Chen Tseng

APPLYING TEMPORAL ASSOCIATION RULE MINING TO THE ANALYSIS OF TIME SERIES (F032)

Tim Schlüter and Stefan Conrad

DATA PRIVACY AND BUSINESS INTELLIGENCE: TRENDS IN THE UNITED STATES AND THE EUROPEAN UNION (F057)

Richard Afanuh, Mark Frolick and Thilini Ariyachandra

EFFICIENT MINING OF SEQUENTIAL PATTERNS IN TIME-SENSITIVE DATA STREAMS (F087)

Ming-Yen Lin, Sue-Chen Hsueh and Hung-Jr Yao

11:00-11:30 Coffee Break