

CONFERENCE PROGRAM

Monday, 19 November 2018



Sambi Room 1, 2nd Fl.

09.15 **Welcome and Conference Opening**

09.30 **Keynote Talk I : The Web of Scholars**

Prof. Dr. Feng Xia, Dalian University of Technology, China

10.30 Coffee Break

11.00 **Keynote Talk II : ICT as an Enabler for a Society where No One is Left Behind**

Prof. A Min Tjoa, Vienna University of Technology, Austria

12.00 Lunch @Purple Restaurant, Groud Fl.

CONFERENCE PROGRAM

Monday, 19 November 2018

→ Sambu Room 1, 2nd Fl.

13.00 - 15.00 Session **iiWAS – IA : Learning and Analytics I**
Chair: A Min Tjoa

- **Harnessing Truth Discovery Algorithms on The Topic Labelling Problem**
Ngurah Agus Sanjaya Er, Mouhamadou Lamine Ba, Talel Abdessalem, Stephane Bréssan
Indonesia, Senegal, France, Singapore
- **Validation of Tagging Suggestion Models for a Hotel Ticketing Corpus**
Bojan Bozic, Andre Rios, Sarah Jane Delany
Ireland
- **Fast Algorithm for Integrating Clustering with Ranking on Heterogeneous Graphs**
Kotaro Yamazaki, Tomoki Sato, Hiroaki Shiokawa, Hiroyuki Kitagawa
Japan
- **Graph Clustering via Cohesiveness-aware Vector Partitioning**
Hiroaki Shiokawa, Yasunori Futamura
Japan
- **Analysis of Item Selection Behavior in Online Shopping**
Yuri Nozaki, Fumiya Watanabe, Tetsuji Satoh
Japan

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Monday, 19 November 2018

→ Sambu Room 2, 2nd Fl.

13.00 - 15.00 Session **iiWAS – IB : Data Systems I**
Chair: Maria Indrawan-Santiago

- **C-AP: Cell-based Algorithm for Efficient Affinity Propagation**
Tomohiro Matsushita, Hiroaki Shiokawa, Hiroyuki Kitagawa
Japan
- **D-SKY: A Framework for Processing Skyline Queries in a Dynamic and Incomplete Database**
Yonis Gulzar, Ali Alwan, Hamidah Ibrahim, Qin Xin
Malaysia, Denmark
- **Efficient Data and Indexing Structure for Blockchains in Enterprise Systems**
Christian Riegger, Tobias Vincon, Ilia Petrov
Germany
- **Logical Design of Graph Databases from an Entity-Relationship Conceptual Model**
Victor Martins de Sousa, Luis Mariano del Val Cura
Brazil
- **The Blockchain Muddle**
Elisabeth Kapsammer, Birgit Pröll, Werner Retschitzegger, Wieland Schwinger, Markus Weissenbeck, Johannes Schoenboeck
Austria

CONFERENCE PROGRAM

Monday, 19 November 2018

→ Sambhi Room 3, 2nd Fl.

13.00 - 15.00 Session **MoMM – IA : Social Networks and Web Services**

Chair:

- **User Time Spent Between Persuasiveness and Usability of Social Networking Mobile Applications: A Case Study of Facebook and YouTube**
Mohammed Bedjaoui, Nadia Elouali, Sidi Mohamed Benslimane
Algeria
- **A Framework for the composition and formal verification of adaptable semantic Web services**
Rihab Ben Lamine, Raoudha Bendjemaa, Ikram Amous
Tunisia
- **Community detection in social networks using structural and content information**
Elyazid Akachar, Brahim Ouhbi, Bouchra Frikh
Morocco
- **What Does Your Tweet Emotion Mean? Neural Emoji Prediction for Sentiment Analysis**
Toshiki Tomihira, Atsushi Otsuka, Akihiro Yamashita, Tetsuji Satoh
Japan

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Monday, 19 November 2018

→ Sambhi Room 1, 2nd Fl.

15.30 - 17.00 Session **iiWAS – IC : Learning & Analytics II**
Chair: Ismail Khalil

- **Evaluation of Japanese Text Characteristics with Simplified Corpora using Base Selection**
Koji Wajima, Kei Kogure, Toshihiro Furukawa, Tetsuji Satoh
Japan
- **Collaborative Learning to Reduce Learners Dropouts in MOOCs: Modeling an Agent-Based Simulation**
Lakshmi Sunil Prakash, Kashif Zia, Ismail Khalil
Oman, Austria
- **Growth Analysis of Purchase History Graph Based on Relative Value of Edge Multiplicity**
Kazufumi Inafuku, Takayasu Fushimi, Tetsuji Satoh
Japan
- **Set Labelling using Multi-label Classification**
Ngurah Agus Sanjaya Er, Jesse Read, Talel Abdessalem, Stephane Bréssan
Indonesia, France, Singapore

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Monday, 19 November 2018

→ Sambu Room 2, 2nd Fl.

15.30 - 17.00 Session **iiWAS – ID : Data Systems II**
Chair: Werner Retschitzegger

- **Efficient Skyline Processing Algorithm over Dynamic and Incomplete Database**
Ghazaleh Babanejad Dehaki, Hamidah Ibrahim, Nur Izura Udzir, Fatimah Sidi, Ali A. Alwan
Malaysia
- **Testing Database Applications with Polygraph**
Yazeed Alabdulkarim, Marwan Almaymoni, Shahram Ghandeharizadeh, Haoyu Huang, Hieu Nguyen
USA
- **Graph Patterns Indexes: their Storage and Retrieval**
Jaroslav Pokorný, Michal Valenta, Jaroslav Ramba
Czech Republic
- **Indoor Navigation Guidance for Mobile Device**
Jonathan Marihot Parulian, Kiki Maulana Adinugraha, Sultan Alamri
Indonesia, Saudi Arabia
- **Use timestamp and eye tracking to improve the quality of video content**
Moe Unno, Haruka Ohba, Yusuke Suzuki, Shinya Mizuno
Japan

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Monday, 19 November 2018

→ Sambhi Room 3, 2nd Fl.

15.30 - 17.00 Session **MoMM– IB : Mobile Multimedia**
Chair: Komal Komal

- **Parameter Recovery Using Radon Transform**
Komal Komal, Nandita Bhattacharjee, David Albrecht, Bala Srinivasan
Australia
- **Management of Mobile Objects Location for Video Content Filtering**
Franck Jeveme Panta, André Péninou, Florence Sedes
France
- **A Method to Reduce Processing Time by Parallelizing Generation of Voronoi Diagrams**
Yuuhi Okahana, Yusuke Gotoh
Japan
- **Visual attention toward Socially Rich context information for Autism Spectrum Disorder (ASD) and Normal Developing Children: An Eye Tracking Study**
Emad Bataineh, Mohamed Basel Almourad, Farhi Marir, Joana Stocker
United Arab Emirates

CONFERENCE PROGRAM


Tuesday, 20 November 2018

→ Sambu Room 1, 2nd Fl.

09.00 - 10.30 Session **iiWAS – IIA : Learning & Analytics III**
Chair: Akiyo Nadamoto

- **A Layered Approach for Summarization and Context Learning from Microblogging Data**
Muhammad Abulaish, Md. Showrov, Mohd Fazil
India
- **Search Log Analysis Method of Online Shopping Sites for Navigating Item Categories**
Yuri Nozaki, Tetsuji Satoh
Japan

Tuesday, 20 November 2018

 Sambi Room 2, 2nd Fl.

09.00 - 10.30 Session **iiWAS – IIB : Software Engineering & Services I**
Chair: Wieland Schwinger

- **Controllability of Orchestrations with Temporal SLA: Encoding Temporal XOR in CSTNUD**
Johann Eder, Marco Franceschetti, Julius Köpke
Austria
- **Conceptual Design of a hybrid Participatory IT supporting in-situ and ex-situ collaborative text authoring**
Anna Maria Al Zubaidi-Polli, Gabriele Anderst-Kotsis
Austria

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Tuesday, 20 November 2018

→ Sambu Room 3, 2nd Fl.

09.00 - 10.30 Session **MoMM – IIA : Wearables and Hand Gestures**
Chair: Yusuke Gotoh

- **Evaluation of Input using Wrinkles on Clothes**
Kentaro Ueda, Tsutomu Terada, Masahiko Tsukamoto
Japan
- **Mobile Sign Language Recognition for Bahasa Indonesia using Convolutional Neural Network**
Pujianto Yugopuspito, I Made Murwantara, Jessica Sean
Indonesia

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Tuesday, 20 November 2018



Sambi Room 1, 2nd Fl.

11.00 - 12.00 Session **iiWAS – IIC : Data Systems III**
Chair: Muhammad Abulaish

- **Evaluating Customer Satisfaction Using Behavioral Analytics of Data-Intensive Software Systems**
Gabriele Anderst-Kotsis, Jürgen Ratzenböck
Austria
- **Quantification of New Web Applications within Enterprise Networks**
Sami Habib, Paulvanna Nayaki
Kuwait
- **Application of machine learning to identify Counterfeit Website**
Kuanting Wu, Shinghua Chou, Shyhwei Chen, Chingtsorng Tsai, Shyanming Yuan
Taiwan

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Tuesday, 20 November 2018

→ Sambu Room 2, 2nd Fl.

11.00 - 12.00 Session **iiWAS – IID : Software Engineering & Services II**
Chair: Johann Eder

- **Weblog Data Structuration A Stream-centric approach for improving session reconstruction quality**
Amine Ganibardi, Arab Ali Cherif
France
- **CloudWoT - A Reference Model for Knowledge-based IoT Solution**
Sami Habib, Paulvanna Nayaki
Kuwait
- **Application of machine learning to identify Counterfeit Website**
Abdelkader Magdy, Christoph Schmittner, Thomas Gruber, A.Baith Mohamed, Gerald Quirchmayr, Erich Schikuta
Austria

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Tuesday, 20 November 2018

→ Sambu Room 3, 2nd Fl.

11.00 - 12.00 Session **MoMM – IIB : Mobile Sensing**
Chair: Kentaro Ueda

- **Technical Support System for Baseball Beginners by Analyzing Batting Stance with Sensors**
Hiroaki Ito, Yusuke Gotoh
Japan
- **User identification method in a bathtub with a water pressure sensor**
Kazuya Murao, Sarina Nakayama, Masahiro Mochizuki, Nobuhiko Nishio
Japan

Tuesday, 20 November 2018

Sambi Room 1, 2nd Fl.

13.00 - 15.00 Session **iiWAS – IIE : Learning & Analytics IV**
Chair: Kiki Maulana Adhinugraha

- **Information Diffusion Enhanced by Multi-Task Peer Prediction**
Kensuke Ito, Shohei Ohsawa, Hideyuki Tanaka
Japan
- **Modelling Opinion Formation by Incorporating Users' Expertise and Friendshipness**
Takayasu Fushimi, Mio Ono
Japan
- **Clause-level Negative-opinion Analysis for Classifying Reviews on Multiple Domains**
Kazuhiro Akiyama, Kensuke Mitsuzawa, Kazuya Narita, Tadahiko Kumamoto, Akiyo Nadamoto
Japan
- **Graph Embeddings for Linked Data Clustering**
Siham Eddamiri, Elmoukhtar Zemmouri, Asmaa Benghabrit
Morocco

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Tuesday, 20 November 2018

→ Sambu Room 2, 2nd Fl.

13.00 - 15.00 Session **iiWAS – IIF : Learning & Analytics V**
Chair: Tetsuji Satoh

- **A Preliminary Study for Quantitative Assessment of Life Rhythm Based on Sleeping and Eating Log Data**
Long Niu, Sachio Saiki, Masahide Nakamura
Japan
- **Extracting Japanese Behavioral Facilitation Tweet in Disaster Situations**
Keiichi Mizuka, Yu Suzuki, Akiyo Nadamoto
Japan
- **A Model to Explore Personal Brand in Social Networks**
Liu Ying-Chieh, Yun Ying Hung, Juniati Gunawan
Taiwan, Indonesia
- **SQL-based Email composition and query synthesis in RMX**
Moeko Deguchi, Yasushi Doi, Motomichi Toyama
Japan

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Tuesday, 20 November 2018

→ Sambu Room 3, 2nd Fl.

13.00 - 15.00 Session **MoMM – IIC : Mobile Applications**
Chair: Andreea Molnar

- **A method for prevention of missing a target vehicle by using a vehicle timetable with fiction of vehicle departure time intervals**
Kyosuke Futami, Tsutomu Terada, Masahiko Tsukamoto
Japan
- **The Effect of Content-Type and Video Adaptation on Information Assimilation**
Andreea Molnar
Australia
- **Find Campus as a Mobile Augmented Reality Apps For Searching College Location**
Riri Safitri, M. Rizky Syahferi Aswan, Fat'hah Noor Prawita
Indonesia

Wednesday, 21 November 2018

→ Sambu Room 1, 2nd Fl.

09.00 - 10.30 Session **iiWAS – IIIA : Online Social Networks I**
Chair: Motomichi Toyama

- **A Hybrid Model for Social Media Sentiment Analysis for Indonesian Text**
Syopiansyah Jaya Putra, Ismail Khalil, Muhamad Nur Gunawan, Rivai Amin, Tata Sutabri
Indonesia, Austria
- **Investigating the Consistency of Emoji Sentiment Lexicons Constructed Using Different Languages**
Mayu Kimura, Marie Katsurai
Japan
- **Decision Support System of Scientific Publication Awards using Forward Chaining Algorithm**
Mohamad Irfan, Aldi Lesmana M. Rizal, Dian Sa'adillah Maylawati, Wahyudin Darmalaksana, Muhammad Ali Ramdhani
Indonesia
- **Project Monitoring System for Material Circulation**
Syopiansyah Jaya Putra, Muntaha Syahroni, Dwi Puspita Sari, Muhamad Nur Gunawan
Indonesia

Wednesday, 21 November 2018

→ Sambu Room 2, 2nd Fl.

09.00 - 10.30 Session **iiWAS – IIB : Text Analytics**
Chair:

- **An Approach for Unknown Word Processing based on Japanese Phonological Rules**
Tokiya Baba, Kazuma Kusu, Kenji Hatano
Japan
- **Flow Graph Generation Method for Visualizing Procedural Texts**
Shihono Karikome, Noriko Kando, Tetsuji Satoh
Japan
- **Extracting time series variation of topic popularity in microblogs**
Satoshi Fukuyama, Kei Wakabayashi
Japan

Wednesday, 21 November 2018

→ Sambu Room 1, 2nd Fl.

11.00 - 12.30 Session **iiWAS – IIC : Learning and Analytics VI**
Chair: Abdelkader Magdy Shaaban

- **A Study on Estimation of High Impact Papers based on Cited Structure in Body Text**
Yoshito Kamisawa, Noriko Kando, Tetsuji Satoh
Japan
- **Knack for Cooking Extraction from User Generated Recipe Sites**
Yoshiki Yoneda, Akiyo Nadamoto
Japan
- **Segmentation-based Unsupervised Phrase Detection**
Kei Wakabayashi
Japan
- **Spatial Information System on The Distribution of Housing and Settlement Facilities**
Zainul Arham, Eva Khudzaeva, Muhammad Dedy Saputra
Indonesia

12.30 - 13.00 **Best Paper Awards & Closing**

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Wednesday, 21 November 2018

→ Sambu Room 2, 2nd Fl.

11.00 - 12.30 Session **iiWAS – IIID : Online Social Networks II**
Chair: Masahide Nakamura

- **A Framework for Processing Skyline Queries for a Group of Mobile Users**
Ghonchek Babanejad Dehaki, Hamidah Ibrahim, Nur Izura Udzir, Fatimah Sidi, Ali A. Alwan
Malaysia
- **CLTD: Collaborative Learning Tool for Deaf**
Asmaa Alsumait, Maha Faisal
Kuwait
- **An Approach of Recommending Personalized Web Services through Annotations in Learning Environment**
Omar Mazhoud, Anis Kalboussi, Ahmed Hadj Kacem
Tunisia
- **Analysis of Study Program Selection Patterns Using FP-Growth and ECLAT Methods**
Nurbojatmiko Nurbojatmiko, Eri Rustamaji, Asep Fajar Firmansyah
Indonesia

12.30 - 13.00 **Best Paper Awards & Closing**

→ Sambu Room 1, 2nd Fl



November 19 -21, 2018 Yogyakarta, Indonesia

CONFERENCE PROGRAM

Wednesday, 21 November 2018

- **10.30 – 11.00 Coffee Break @Foyer Sambu Room 1,2,3**
- **12.30 – 13.00 Best Paper Award & Closing @Sambu Room 1**
- **13.00 – 14.00 Lunch @ Purple Restaurant Ground Fl.**

12.30 - 13.00 Best Paper Awards & Closing



Sambu Room 1, 2nd Fl



November 19 -21, 2018 Yogyakarta, Indonesia

CONFERENCE PROGRAM

Tuesday, 20 November 2018

- **10.30 – 11.00 Coffee Break @Foyer Sambi Room 1,2,3**
- **12.00 – 13.00 Lunch @ Purple Restaurant Ground Fl.**
- **15.00 – 15.30 Coffee Break @Foyer Sambi Room 1,2,3**
- **16.30 Bus departs to Prambanan Complex for Conference Dinner**

12.30 - 13.00 Best Paper Awards & Closing



Sambi Room 1, 2nd Fl



November 19 -21, 2018 Yogyakarta, Indonesia

CONFERENCE PROGRAM

Monday, 19 November 2018

- **10.30 – 11.00 Coffee Break @Foyer Sambi Room 1,2,3**
- **12.00 – 13.00 Lunch @ Purple Restaurant Ground Fl.**
- **15.00 – 15.30 Group Photo & Coffee Break @Foyer Sambi Room 1,2,3**
- **17.30 – 20.00 Welcome Reception @Piazza Pool side**

12.30 - 13.00 Best Paper Awards & Closing



Sambi Room 1, 2nd Fl



November 19 -21, 2018 Yogyakarta, Indonesia