



The International ACM Conference on Management of Emergent Digital EcoSystems (MEDES'12)

Conference Program

	Sunday Oct. 28, 2012	Monday Oct. 29, 2012	Tuesday Oct. 30, 2012	Wednesday Oct. 31, 2012			
09:00-09:30 AM		Registration	Registration	Excursion			
09:30-10:00 AM					Opening Ceremony + Keynote Talk by Prof. Nicolas Stryatos	Keynote Talk by Prof. Lionel Brunie	
10:00-10:30 AM					Coffee Break	Poster Session	
10:30-11:00 AM						Coffee Break	
11:00-11:30 AM					Session WS	Session DE	
11:30-12:00 AM							
12:00-12:30 AM							
12:30-13:00 AM		Conference Lunch					
13:00-02:00 PM							
02:00-02:30 PM	Registration	Registration	Registration	Excursion			
02:30-03:00 PM					Tutorial by Prof. William Grosky	Session NLP	Session NES
03:00-03:45 PM						Coffee Break	Coffee Break
03:45-04:00 PM					Coffee Break		
04:00-04:30 PM					Tutorial	Session HEALTH	Session ISSC
04:30-05:00 PM							
05:00-05:30 PM						Student Symposium	
05:30-05:45 PM			Conference Dinner				
05:45-06:30 PM							
06:30-07:00 PM							
07:00-07:30 PM							
07:30-10:30 PM							



Centrum für internationale Migration und Entwicklung
eine Arbeitsgemeinschaft aus giz und

Full Conference Program

Sunday 2 pm - 7 pm

Tutorial Talk: **A Gentle Introduction to the Dimensional Reduction Landscape**

By Prof. William I. Grosky, University of Michigan-Dearborn, USA

Monday 9 am –9 :30am

Opening Ceremony

Monday 9 :30 am - 11 am

Keynote Talk: **Digital Library Concepts**

By Prof. Nicolas Spyrtatos, University of Paris-South, France

Monday 11.30 am – 1 pm

Session: **Services & Web (WS)**

Chaired by: **Lionel Brunie**

Amharic-English Bilingual Web Search Engine

Mequannint Munye and Solomon Atnafu

On the use of Goal-Oriented Methodology for Designing Agriculture Services in

Developing Countries

Komminist Weldemariam, Sebsibe Hailemariam Dadi, Adolfo Villafiorita, Mesfin Belachew,

Amanuel Zewge and Angelo Susi

A New Way of Architecting the Enterprise (short paper)

Nassir Dino, Awel Dico and Dida Midekso

Information Quality Dimensions for the Social Web (short paper)

Markus Schaal, Barry Smyth, Rutger MacLean and Roland M. Mueller

Monday 1 pm - 2 pm

Conference Lunch

Monday 2 pm –3:45 pm

Session: **Natural Language Processing (NLP)**

Chaired by: **Salehu Anteneh**

Duration Modeling of Phonemes for Amharic Text to Speech System

Yonas Demeke and Sebsibe Hailemariam

Topic-based Amharic Text Summarization with Probabilistic Latent Semantic Analysis

Eyob Yirdaw and Dejene Ejigu

Modeling Improved Syllabification Algorithm for Amharic

Nirayo Hailu and Sebsibe Hailemariam

Development of an Amharic Spelling Corrector for Tolerant-Retrieval (short paper)

Andargachew Mekonnen

Concatenative Speech Synthesis for Amharic Using Unit Selection Method (short paper)

Eyob Bayou and Yaregal Assabie

Monday 4 pm – 5:45 pm

Session: **Health Care Applications (HEALTH)**

Chaired by: **Mulugeta Libsie**

Enhancing Semantic Relation Quality of UMLS Knowledge Sources

Demeke Ayele, Jean-Pierre Chevallet, Million Meshesha and Getnet Mitikie

Near Real-Time Medical Data Dissemination in m-Health

Richard Lomotey, Rahnuma Kazi and Ralph Deters

Metrics Driven Security Management Framework for E-Health Digital Ecosystem Focusing on Chronic Diseases

Reijo Savola and Markus Sihvonen

**A Latency Hiding Framework For Enhanced Ubiquitous Access to Big Data
in a Constrained Digital Ecosystem: Application to Digital Medical Archives**

Dessalegn Yehuala, Lionel Brunie, Mulugeta Libsie and David Coquil

Monday 5:45 pm – 7pm

Session: **Student Symposium**

Chaired by: **Solomon Teferra Abate**

Mobile Information Systems Architecture for Everyday Money Practice

Mesfin Woldmariam

Application of Soft Computing Techniques for Factory Floor Automation to Digital Ecosystems

P VL Narayana Rao

Sensorless-Cloud Integration Framework in Support of Real-Time Monitoring and Management of Traffic on the Road: the Case of Ethiopia

Ayalew Belay Habtie

Tuesday 9 am – 10:30 am

Keynote Talk: **Security and Privacy Issues in Multi-Scale Digital Ecosystems**

By Prof. Lionel Brunie, INSA de Lyon, France

Tuesday 10:30 am – 11.00 am

Session: **Poster Sessions**

Chaired by: **Dominique Laurent**

Automatic index creation to support authors to find the word they are looking for

Debela Tesfaye and Michael Zock

Business Service Modeling Using SOA: A Core Component of Business Architecture

Fantahun Zikie, Awel Dico and Dida Debela

Exploring Data mining Techniques and Algorithms for Predicting customer loyalty and loan default risk scenarios at Wisdom Microfinance, Addis Ababa, Ethiopia

Getachew Mengesha, Shawndra Hill and Sintayehu Demissie

Semantic Based Customer-Goal Mapping Technique: the Organizational Perspective

Mesfin Kifle

Business Process Formal Modeling in Graphical Ontology Tool - Functional View

Jakub Stolfá, Svatopluk Stolfá, Jan Kozusznik and Tereza Moudra

Tuesday 11:30 am – 1pm

Session: **Digital Ecosystems & Business Applications (DE)**

Chaired by: **Nicolas Spyrtos**

A Comprehensive Approach towards the Structural Description of Business Models

Thomas Burkhart, Markus Schief, Dominik Vanderhaeghen, Stephan Wolter, Julian Krumeich, Christina Di Valentin, Dirk Werth and Peter Loos

Barriers of Knowledge Sharing among Employees: the Case of Commercial Bank of Ethiopia (CBE)

Temtun Assefa, Monica Garfield and Million Meshesha

Towards Understanding the Rural Financial Ecosystem in Ethiopia: Perspective from Case Study

Mesfin Woldemariam, Ghinea Gheorghita and Solomon Atnafu

Capital flow analysis: Application in analysis of digital ecosystem infrastructure establishment and sustainability in a developing economy

Workshet Debay, Tilahun Teklu and Richard Watson

Digital Ecosystem: Challenges and Prospects

Wenbin Li, Youakim Badr and Frederique Biennier

Tuesday 1 pm - 2 pm

Conference Lunch

Tuesday 2 pm – 3:45 pm

Session: **Networks & Data Security (NES)**

Chaired by: **William Grosky**

Performance of TCP Variants over Proactive and Reactive Routing Protocols in MANET

Henock Mulugeta Melaku and Kumudha Raimond

Secure Data Storage for Mobile Data Collection Systems

Samson Gejibo, Federico Mancini, Khalid Mughal, Remi Andr  B. Valvik and J rn Klungs yr

Novel Synchronization Scheme of Cognitive Radio for Wireless Ad-hoc Network (short paper)

Yoon Hyun Kim, Kyung Sun Lee and Jin Young Kim

A Comparative Study of Cognitive Radio Platforms (short paper)

Moshe Masonta, Mjumo Mzyece and Fisseha Mekuria

Tuesday 4 pm – 5:45 pm

Session: **Information Systems & Soft Computing (ISSC)**

Chaired by: **DidaMidekso**

Multi Query Optimization for Semantic News Feed Query

Andinet Assefa and Fekade Getahun

Recognition of Ethiopic Braille Characters (short paper)

Miftah Hassen and Yaregal Assabie

Value estimation of the use case parameters using SOM and fuzzy rules

Jakub Stolf , Ondr ej Kobersky, Martin Kopka, Pavel Kromer, Svatopluk Stolf ,

Jan Kozusznik and Vaclav Snasel

Amharic Document Image Retrieval Using Morphological Coding (short paper)

Tilahun Yeshambel and Yaregal Assabie

Wednesday 7 AM – 6 pm

Conference Excursion: Visit the unique Crater Lake of Wonchi, AA-Ambo-Wonchi-Woliso-AA, Wonchi crater lake is known for its magnificent landscapes