$$C^3S^2E$$

This document records the final programs for each of the 9 meetings of the **C* Conference on Computer Science & Software Engineering, C³S²E** which were organized in various locations on three continents. The papers published during these years are accessible from the digital librariy of ACM(2008-2016).

It is hoped that the bringing together of the final programs and the authors would be useful for recoding the many contributions made by the participants. Alas, some of them are no longer with us. We, the survivors, fondly remember our personal encounters with them and the comraderie that developed.

This series as well as its steering committee and the logo[1] is now retiring

Bipin C. Desai
Retiring General Chair 2008-2016
Montreal, June 2022

1The logo is copyrighted by Lettie and we are thankful to her for its use for **C³S²E**.

C³S²E

Montreal, 2008

May 12-13, 2008
Concordia University

Editor: Bipin C. Desai

Program Chairs: Bipin. C. Desai, Sudhir Mudur

C3S2E '08
Canadian Conference on Computer Science & Software Engineering
Montreal, QC, CANADA 12-13 May, 2008

C3S2E-08 is over, please see:
http://confsys.encs.concordia.ca/
for the latest conferences managed by ConfSys
including the next in the series of C3S2E.

Session 1 — **Opening**

Date:	2008-05-12
Time:	09:00 — 09:15
Location:	EV3-309
Chair:	Dr.Bipin C. Desai

Session 2 — **Invited Talk**

Date:	2008-05-12
Time:	09:15 — 10:15
Location:	EV3-309
Chair:	Dr.Sudhir Mudur

--**Computational Tools for Ethnomusicology**
Godfried T Toussaint (Canada) , McGill University

Session 3 — **Break**

Date:	2008-05-12
Time:	10:15 — 10:45
Location:	EV2-184

Session 4 — **Algorithms**

Date:	2008-05-12
Time:	10:45 — 12:15
Location:	EV3-309
Chair:	Dr.Godfried T Toussaint

--**A Bioinspired Algorithm to Price Options**
Sameer Kumar (Canada) , *Ruppa Thulasiram (Canada)* ,
Parimala Thulasiraman (Canada) , University of Manitoba

--**Integer Least Squares: Sphere Decoding and the LLL Algorithm**
McMaster University

--**Study of Best Algorithm Combinations for Speech Processing Tasks in Machine Learning using Median vs. Mean Clusters in MARF**
Serguei Mokhov (Canada) , Concordia University

Session 5 — **Lunch**

Date:	2008-05-12
Time:	12:15 — 13:30
Location:	EV2-184

Session 6 — **Applications**

Date:	2008-05-12
Time:	13:30 — 15:00
Location:	EV3-309
Chair:	Dr. Ghislain Levesque

--**Design and Development of a Prototype System for Detecting Abnormal Weather Observations**
Mark Anthony F. Mateo (Canada) , Carson Kai-Sang Leung (Canada) , University of Manitoba

--**HPC for Iterative Image Reconstruction in CT**
Cameron Melvin (Canada) , Meilian Xu (Canada) , Parimala Thulasiraman (Canada) , University of Manitoba

--**Accuracy and Stability in Mass-Spring Systems for Sound Synthesis**
Don Morgan (Canada) , Sanzheng Qiao (Canada) , McMaster University

Session 7 **Break**

Date: 2008-05-12
Time: 15:00 — 15:30
Location: EV2-184

Session 8 **Software engineering**

Date: 2008-05-12
Time: 15:30 — 17:00
Location: EV3-309
Chair: Dr.Carson Kai-Sang Leung

--**Estimating Software Size with UML Models**
Ghislain Levesque (Canada) , Valery Bevo (Canada) , De Tran Cao (Vietnam) , University of Quebec at Montreal

--**Applying a Open Application Security Process to a Clinical Information System - A Case Study**
Michael Pfaehler (Germany) , Jens Weber-Jahnke , University of Victoria

--**Concurrent Software Engineering: Preparing for Paradigm Shift**
Peter Grogono , Brian Shearing (United Kingdom) , Concordia University

Session 9 **Poster Sessions/Reception**

Date: 2008-05-12
Time: 17:15 — 19:15
Location: EV2-260
Chair: Dr.Constantinos Constantinides

--**A Computer-Aided Change Detection System for Paediatric Acute Intracranial Haemorrhage**
Boyu Hao (Canada) , Carson Kai-Sang Leung (Canada) , Sergio Camorlinga (Canada) , Martin H. Reed (Canada) , Martin K. Bunge (Canada) , Jens Wrogemann (Canada) , Rick J. Higgins (Canada) , University of Manitoba

--**Knowledge Discovery in Chinese Medicine**
Tongyuan Wang (Canada) , Bipin Desai (Canada) , Huzhan Zheng (China) , Yanjiang Qiao (China) , Concordia University

--**Genre Prediction Based on Clustering Training Data Second Prize - tie**
Chris Sanden (Canada) , Chad Befus (Canada) , John Z. Zhang (Canada) , University of Lethbridge

--**Evenness Preserving Operations on Musical Rhythms**
Francisco Gomez-Martin (Spain) , Perouz Taslakian (Canada) , Godfried Toussaint (Canada) , McGill University

--**Physically-based dynamic cell representation with consistent cell neighbor relationships Second Prize - tie**
Ding Cai (Canada) , Won-Sook Lee (Canada) , Chris Joslin (Canada) , University of Ottawa

--**Revisiting 2DR-tree Insertion**
Marc Moreau (Canada) , Wendy Osborn (Canada) , University of Lethbridge

--**An Enhanced Web Robot for the CINDI System**
Rui Chen (Canada) , Bipin C. Desai (Canada) , Concordia University

--**Towards an Automatic Framework for Evaluating Clone Detection Techniques   First Prize**
Chanchal Kumar Roy (Canada) , James R. Cordy (Canada) , Queen's University

--**CONFSYS: A Web-based Academic Conference Management System**
Min Huang (Canada) , YuWei Feng (Canada) , Bipin C. Desai (Canada) , Concordia University

Session 10 **Invited Talk**

Date: 2008-05-13
Time: 09:00 — 10:00
Location: EV3-309
Chair: Dr.Sudhir Mudur

--**Cyber Forensics: A Software Engineering Perspective(Invited talk)**
Debbabi Mourad (Canada) , Concordia University

Session 11 **Break**

Date: 2008-05-13
Time: 10:00 — 10:30
Location: EV2-184

Session 12 **Wo/man Machine Interaction**

Date: 2008-05-13
Time: 10:30 — 12:00
Location: EV3-309
Chair: Dr.Jens Weber-Jahnke

--**A Framework for Dynamic Deformation of Uniform Elastic Two-Layer 2D and 3D Objects in OpenGL**
Miao Song (Canada) , Peter Grogono (Canada) , Concordia University

--**Context Sensitive Cut, Copy and Paste**
Reid Kerr (Canada) , Wolfgang Stuerzlinger (Canada) , York University

--**cutting|Plane: An Interactive Tool for Exploration of 3D Datasets via Slicing**
Attila Zsaki(Canada)Concordia University

Session 13 **Lunch**

Date: 2008-05-13
Time: 12:00 — 13:30
Location: EV2-184

Session 14 **Applications 1**

Date: 2008-05-13

Time: 13:30 — 15:00
Location: EV3-309
Chair: Dr.Ruppa K. Thulasiram

-- **Answering Preference Queries With Bit-Sliced Index Arithmetic**
   Denis Rinfret (Canada) , Royal Military College of Canada

-- **Multi-view 3D scanned data Registration**
   Sushil Bhakar (Canada) , *Ran Wang (Canada)* ,
   Sudhir Mudur (Canada) , Concordia University

-- **Deforming point based models using an electronic glove**
   Akanksh Vashisth (Canada) , *Sudhir Mudur (Canada)* ,
   Concordia University

-- **On the Relation Between Rhythm Complexity Measures and Human Rhythmic Performance**
   Eric Thul (Canada) , *Godfried Toussaint (Canada)* , McGill University

Session 15 **Break**

Date: 2008-05-13
Time: 15:00 — 15:30
Location: EV2-184

Session 16 **Distributed Computing**

Date: 2008-05-13
Time: 15:30 — 17:00
Location: EV3-309
Chair: Dr.Bipin C. Desai

-- **A Performance Investigation of Web Caching Architectures**
   Richard Hurley (Canada) , *Bing Yu Li (Canada)* , Trent University

-- **Context-Aware Application Programming for Mobile Devices**
   *Weichang Du(Canada)*University of New Brunswick

-- **A New Method for Generating Compressed representation of Transitive Closure**
   *Yangjun Chen*University of Winnipeg

Session 17 **Dinner -Poster Award**

Date: 2008-05-13
Time: 18:30 — 21:00
Location: Le Cabaret du Roi (www.oyez.ca/Cabaret /accueil.htmll)

C³S²E-09 Program

Session 1

Invited Talk 1: Dr. Laks V.S. Lakshmanan (UBC)

Date: 2009-05-19
Time: 09:30 — 11:00
Location: EV2-260
Chair: Prof. Carson K. Leung

-- **Recommender Systems Revisited: From Items to Transactions**
Laks Lakshmanan

Session 2

Databases 1

Date: 2009-05-19
Time: 11:30 — 12:30
Location: EV3-309
Chair: Dr.Laks V.S. Lakshmanan

-- **CINDI : A Digital Library for Academics**
Rui Chen , Alirio Perez , Krishma Dutta , Bipin C. Desai
-- **An Adaptive Multi-strategy Approach for Semantic Mapping**
Julie Vachon , Youssef Bououlid Idrissi
-- **Issues in Pattern Mining and their Resolutions**
Tongyuan Wang , Bipin C Desai

Session 3

Databases 2

Date: 2009-05-19
Time: 14:00 — 15:30
Location: EV3-309
Chair: Dr.Jaroslav Opatrny

-- **Anonymizing Location-based Data**
Jarmanjit Singh , Benjamin Fung , Harpreet Sandhu , Qing Shi
-- **The promise of Solid State Disks - increasing efficiency and reducing cost of DBMS processing**
Karsten Schmidt , Yi Ou , Theo H鋋der
-- **On the Stack Encoding and Twig Joins**
Yangjun Chen

Session 4

Position Papers

Date: 2009-05-19
Time: 16:00 — 17:40
Location: EV3-309
Chair: Dr.Peter Graham

-- **Agile development: Issues and avenues requiring a substantial enhancement of the business perspective in large projects**
Oualid Ktata , Ghislain L鐎esque
-- **Bridging the Gap: Discrete-Event Systems for Software Engineering (Short Position Paper)**
Juergen Dingel , Karen Rudie , Chris Dragert
-- **Integrating Heterogeneous User Interfaces in Service Oriented Web Applications**
Adrian Fiech , Matthias Tilsner , Thomas Specht
-- **Network Survivability in Regional Large-Scale Failure Scenarios**
Shahram Shah Heydari , Bijan Bassiri
-- **Application of Advanced Rendering and Animation Techniques for 3D Games to Softbody Modeling and Animation**
Miao Song , Peter Grogono

Session 5

Student Posters & Reception

Date: 2009-05-19
Time: 18:00 — 21:00
Location: EV2-260
Chair: Dr.Carson K. Leung

-- **A Type System for Hybrid Intensional-Imperative Programming Support in GIPSY**
Serguei Mokhov , Joey Paquet , Xin Tong
-- **A Verification Framework for Access Control in Dynamic Web Applications**
Alalfi manar , James Cordy , Thomas Dean
-- **ACDL: A Communication Choreography for Discrete Step Multi-Agent Social Simulations**
Ziad Kobti , Hasan Naushin
-- **An ASSL-Generated Architecture for Autonomic Systems**
Emil Vassev , Serguei Mokhov
-- **Component Placement and Location for a Dynamic Software Composition System**
Behzad Sajed Khosrowshahi , Peter Graham
-- **Designing an Interactive OpenGL Slide-Based Presentation of the Softbody Simulation System for Teaching and Learning of Computer Graphics Techniques**
Miao Song , Serguei Mokhov , Peter Grogono
-- **Integrating Usability Engineering and Software Engineering in Mixed Reality System Development**
Volker Paelke , Karsten Nebe
-- **Modeling for Dynamic Aspect-Oriented Development**
Farhana Alam , Adrian Fiech , Joerg Evermann
-- **Real-time haptic display of fluids**
Mauricio Vines , Javier Mora , Won-Sook Lee
-- **CONFSYS2: An Improved Web-based Multi-Conference Management System**
Min Huang , Yuwei Feng , Desai Bipin C

Session 6

Invited Talk 2: Dr. Alain Abran (ETS)

Date: 2009-05-20

Time: 09:30 — 11:00
Location: EV2-260
Chair: Prof. Olga Ormandjieva
  --**Software Estimation: Universal Models or Multiple Models**
    Alain Abran

Session 7

Software Engineering 1

Date: 2009-05-20
Time: 11:30 — 12:30
Location: EV3-309
Chair: Dr.Alain Abran
  --**Autonomic Specification of Self-Protection for Distributed MARF with ASSL**
    Serguei Mokhov , Emil Vassev
  --**Markovian Workload Modeling for Enterprise Application Servers**
    Samira Sadaoui , Nima Sharifimehr
  --**Radius Selection Algorithms for Sphere Decoding**
    Fei Zhao , Sanzheng Qiao

Session 8

Computer Vision and Computer Graphics

Date: 2009-05-20
Time: 14:00 — 15:30
Location: EV3-309
Chair: Dr.Samira Sadaoui
  --**CPU, SMP and GPU Implementations of Nohalo Level 1, a Fast Co-Convex Antialiasing Image Resampler**
    Nicolas Robidoux , Minglun Gong , John Cupitt , Adam Turcotte , Kirk Martinez
  --**Texture Map: An Effective Representation for Image Segmentation**
    Tao Xu , Iker Gondra Luja
  --**Use of Semantic Web Technology for Adding 3D Detail to GIS Landscape Data**
    Pedro Maroun EID , Sudhir Mudur

Session 9

Software Engineering 2

Date: 2009-05-20
Time: 16:00 — 16:30
Location: EV3-309
Chair: Dr.Hovhannes Harutyunyan
  --**An Automated Procedure for Identifying Poorly Documented Object Oriented Software Components**
    Parag Pendharkar

Session 10

Tour & Dinner

Date: 2009-05-20
Time: 17:00 — 21:30
Location: Montreal Museum of Fine Arts
Chair: Dr.

Session 11

Theory

Date: 2009-05-21
Time: 09:30 — 11:00
Location: EV3-309
Chair: Dr.Ziad Kobti
  --**A Local Algorithm for Dominating Sets of Quasi-unit Disk Graphs**
    Jaroslav Opatrny , Yonatan Cohen
  --**Edit Metric Decoding: A New Hope**
    Joseph Alexander Brown , Sheridan Houghten , Daniel Ashlock
  --**Branchings with least number of Leaves and Transitive Closure Compression**
    Yangjun Chen

Session 12

Applications

Date: 2009-05-21
Time: 11:30 — 12:30
Location: EV3-309
Chair:
  --**Broadcasting in Necklace Graphs**
    Edward Maraachlian , Hovhannes Harutyunyan , George Laza
  --**Impediments to General Purpose Content Based Image Search**
    Melanie Veltman , Michael Wirth , JingBo Ni
  --**Option Pricing using Particle Swarm Optimization**
    Parimala Thulasiraman , Ruppa Thulasiram , Sameer Kumar , Hari Prasain , Girish Jha

Preface

The C* Conference on Computer Science and Software Engineering (C^{3}S^{2}E) was established in 2008. C3S2E 2010 is the third annual meeting in the C3S2E conference series and is held in Montréal, Québec, Canada, during May 19-20, 2010. The conference aims to address the need of the academic community in computer science and software engineering. It brings together academics, government and industry professionals to discuss recent progress and challenges in a broad range of areas in the field of computer science and software engineering such as algorithms and theory, artificial intelligence, bioinformatics, computer architecture, computer graphics, computer security, computer vision, data mining, databases, image processing, information retrieval, machine learning, as well as software engineering. C3S2E 2010 also serves as a platform for theoreticians and practitioners to exchange their original research ideas on academic or application aspects of computing and engineering of software systems, present their new findings on theoretical or practical aspects of computer science and software engineering, share their experiences on integrating new technologies into products and applications, discuss their work on applying computing and software engineering to real-life situations, describe their development and operations of challenging computing related systems, and identify unsolved challenges.

Although it is the third time C3S2E is held, this comprehensive conference has grown from a Canadian conference into an international conference. For C3S2E 2010, we continue to keep our tradition for inviting international experts in various areas of computer science and software engineering to join our team of international program committee. As a result, our Program Committee consists of professionals from different parts of the world including Australia, Canada, Germany, Hong Kong, Italy, Japan, Portugal, South Korea, Turkey, UAE, and UK. This committee has done an excellent job in finishing the single-blind review and on-line double-blind debate processes in record time. On average, about 90% of reviews were submitted by the due date and about 3.67 reviews were received for each paper. In terms of submissions, we have attracted many high-quality papers submitted by authors globally. The paper selection process was thorough and competitive. On average, each paper was refereed by at least three reviewers, and about 18% of submissions were accepted as full research papers. This year, we have an intensive program that spans over two days. In addition to research papers and student posters, we also include position papers, which allow authors to give their opinions and vision on exploring new concepts and research directions.

This conference would not have been possible without the help and effort of many people and organizations. We thank ACM Press, BytePress, Concordia University, and The University of Manitoba for their support of this conference. We are grateful to members of the Program Committee for their professionalism and dedication in the process of judging the contributions of papers and producing constructive comments to the authors.

Bipin C. Desai *Concordia University, Montréal, QC, Canada*
Carson K. Leung, *The University of Manitoba, Winnipeg, MB, Canada*
Sudhir P. Mudur, *Concordia University, Montréal, QC, Canada*

Registration 1
Date Time: 2010-05-19 From 09:00 To 16:30
Location: EV 2-184

Opening
Date Time: 2010-05-19 From 09:45 To 10:00
Location: EV3-309

Session: Invited Talk I
Date Time: 2010-05-19 From 10:00 To 11:30
Location: EV3-309
Chair: Sudhir Mudur
  -- **Recombinomics: Phylogenetic approach to genome-wide analysis in populations**
     Laxmi Parida (IBM Research, United States)

Session: Demo - Poster Papers
Date Time: 2010-05-19 From 11:30 To 12:00
Location: EV3-309
Chair: Carson K. Leung
  -- **Towards a Self-Forensics Property in the ASSL Toolset**
     Serguei A. Mokhov (Concordia University, Canada)
  -- **Evolution of MARF and its NLP Framework**
     Serguei A. Mokhov (Concordia University, Canada)
  -- **McLab: An extensible compiler toolkit for M ATLAB and related languages**
     Andrew M Casey,   Jun Li,   Jesse Doherty,   Maxime Chevalier-Boisvert,   Toheed Aslam,   Anton Dubrau,
Nurudeen A Lameed,   amina aslam,   Rahul Garg,   Soroush Radpour,   Olivier Savary Belanger,   Laurie Jane
Hendren,   Clark Verbrugge (McGill University, Canada)

Posters, Discussions & Lunch
Date Time: 2010-05-19 From 12:00 To 13:00
Location: EV 2-184

Session: Invited Talk II
Date Time: 2010-05-19 From 13:00 To 14:30
Location: EV3-309
Chair: Bipin C Desai
  -- **Progress towards underwater 3D scene recovery**
     Michael Jenkin (York University, Canada)

Break 1
Date Time: 2010-05-19 From 14:30 To 15:00
Location: EV2-184

Session: Short Papers I
Date Time: 2010-05-19 From 15:00 To 16:20
Location: EV3-309
Chair: Vasek Chvatal
  -- **The relationship between Scan Path Direction and Cognitive Processing**
     Ratvinder S Grewal (Laurentian University of Sudbury, Canada)
  -- **Discover Hierarchical Subgraphs with Network-Topology Based Ranking Score**
     Wookey Lee,   Nidhi Rustagi Arora,   Tae-Chang Jo (Inha University, Korea Republic)
  -- **A Fair Protocol for Non-determniistic Message Passing**
     Peter D Grogono (Concordia University, Canada)
  -- **Software Quality Engineering in the new ISO standard: ISO/IEC 24748 - Systems and software engineering — Guide for life cycle management**

Daniel Dutil (École de technologie supérieure - Université du Québec, Canada)

Session: Full Papers 1
Date Time: 2010-05-19   From   16:20   To   17:30
Location: EV3-309
Chair: Wookey Lee
   -- Lightweight Reliable Overlay Multicasting in Large-scale P2P Networks
     Shahram Shah Heydari,   Supreet Singh Baweja (University of Ontario Institute of Technology, Canada)
   -- Enhancing Energy Efficiency of Database Applications Using SSDs
     Daniel Schall,   Volker Hudlet,   Theo Haerder (Technische Universität Kaiserslautern, Germany)

Dinner
Date Time: 2010-05-19   From   18:00   To   20:30
Location: MonteFiore Club

Registration 2
Date Time: 2010-05-20   From   08:50   To   12:00
Location: EV 2-184

Session: Invited Talk III
Date Time: 2010-05-20   From   09:00   To   10:30
Location: EV3-309
Chair: Carson K. Leung
   -- Web mining meets Semantic Web: discovering meaningful patterns in user behavior on a semantic portal
     Petko Valtchev (University of Quebec at Montreal, Canada)

Break 2
Date Time: 2010-05-20   From   10:30   To   11:00
Location: EV 2-184

Session: Short Papers 2
Date Time: 2010-05-20   From   11:00   To   12:20
Location: EV3-309
Chair: Petko Valtchev
   -- Software Engineering Principles: A Survey and an Analysis
     Normand Seguin,   Robert Dupuis (University of Quebec at Montreal, Canada)
   -- Designing and Implementing a Measurement Program for Scrum Teams: What do agile developers really need and want?
     Oualid KTATA,   Ghislain C. Levesque (University of Quebec at Montreal, Canada)
   -- Rapid Prototyping and Development of Intelligent Sensor Networks with ASSL and DMF
     Emil Iordanov Vassev (University College Dublin, Ireland)
   -- Estimation of the Number of Cliques in a Random Graph
     Sonal Patel (Ryerson University, Canada)

Lunch
Date Time: 2010-05-20   From   12:20   To   13:40
Location: MonteFiore Club

Session: Full Papers 2
Date Time: 2010-05-20   From   13:50   To   15:20
Location: EV3-309
Chair: Peter D Grogono
   -- Toward an Estimation of Distribution Algorithm for the Evolution of Artificial Neural Networks
     Graham Holker (Ryerson University, Canada)
   -- Scalable Formula Decomposition for Propositional Satisfiability
     Anthony Monnet,   Roger Villemaire (University of Quebec at Montreal, Canada)
   -- Extensible Software Transactional Memory
     Cyprien NOEL (Argilsoft LLC, United States)

Break 3
Date Time: 2010-05-20   From   15:20   To   15:45
Location: EV 2-184

Guided tour - Gems of the Musée des beaux-arts de Montréal
Date Time: 2010-05-20   From   15:45   To   17:00
Location: Musée des beaux-arts de Montréal

C³S²E

C³S²E'11

May 16-18, 2011

Concordia University, Montreal, Canada

C³S²E'11 Final Program
May 16-18, 2011
Concordia University, Montreal
Preface: from the published proceedings

This fourth edition of C³S²E has morphed into an international meeting. For C³S²E'11, we continue to keep our tradition for inviting international experts in various areas of computer science and software engineering to join our team of program committee. As a result, our Program Committee consists of professionals from different parts of the world including: Australia, Canada, China, Denmark, France, Germany, Hong Kong, Ireland, Italy, Japan, Korea Republic, Mexico, Portugal, Spain, Turkey, United Arab Emirates, United Kingdom, United States. This committee has done an excellent job in finishing the single-blind review and on-line double-blind debate processes in record time. On average, about 87% of reviews were submitted by the due date and about 3.47 reviews were received for each paper. In terms of submissions, we have attracted 87 high-quality papers submitted by authors from Argentina, Brazil, Canada, China, France, Germany, India, Iran, Ireland, Japan, Jordan, Korea Republic, Russian Federation, Spain, United Arab Emirates, United Kingdom, United States. The paper selection process was thorough and competitive. On average, each paper was refereed by at least three reviewers: 15 submissions were accepted as full papers(16%) and 5 papers as short papers with an overall acceptance of 23%. This year, we have program that spans over two days. In addition to research papers and student posters, we also include position papers, which allow authors to give their opinions and vision on exploring new concepts and research directions.

The papers are available from ACM digital library.

Session: Keynote Talk 1
Pattern Recognition and its Real World Applications
Ching Suen(Concordia Univesity)
Date Time: 2011-05-16 From 09:15 To 10:30
Location: EV3-309
Chair: Sudhir Mudur

Session: Algorithms
Date Time: 2011-05-16 From 11:00 To 12:30
Location: EV3-309
Chair: Emil Iordanov Vassev
-- **Set-to-Set Disjoint-path Routing in Perfect Hierarchical Hypercubes** -- speaker info
   Antoine Bossard,   Keiichi Kaneko (Tokyo University of Agriculture and Technology, Japan)
-- **A Parallel LLL Algorithm** -- speaker info
   Sanzheng Qiao (McMaster University, Canada)
-- **Full LR(1) Parser Generator Hyacc And Study On The Performance of LR(1) Algorithms** -- speaker info
   Xin Chen,   David Pager (University of Hawaii - Manoa, United States)

Session: Software engineering
Date Time: 2011-05-16 From 14:00 To 15:30
Location: EV3-309
Chair: Peter Z. Revesz
-- **Requirements and Initial Model for KnowLang – a Language for Knowledge Representation in Autonomic Service-Component Ensembles** -- speaker info
   Emil Iordanov Vassev,   Mike Hinchey,   Benoit Gaudin,   Paddy Nixon (University of Limerick, Ireland)
-- **A Platform-Independent UML Profile for Aspect-Oriented Development** -- speaker info
   Joerg Evermann,   Adrian Fiech,   Farhana Eva Alam (Memorial University of Newfoundland, Canada)
-- **Separating Different Responsibilities into Parallel Hierarchies** -- speaker info
   Francisco Ortin,   Miguel Garcia Rodriguez (Universidad de Oviedo, Spain)

Session: AI & NLP
Date Time: 2011-05-16 From 16:00 To 17:30
Location: EV3-309
Chair: Joerg Evermann
-- **Attempts to Verify Written English** -- speaker info
   Anthony Penniston,   Eric R. Harley (Ryerson Polytechnic University, Canada)
-- **Patterns for Service Composition** -- speaker info
   Matthias Tilsner,   Adrian Fiech (Fachhochschule Mannheim, Hochschule fur Technik und Gestaltung, Germany)
-- **A Bottom-up Approach to Understand Functional Programs** -- speaker info
   Gustavo Edgardo Villavicencio (Universidad Catolica de Santiago del Estero, Argentina)
-- **Billiards: an optimization challenge** -- speaker info
   Jean-François Landry (University of Sherbrooke, Canada)

Session: Keynote Talk 2
"Current issues in video coding, transcoding and transport"
Stéphane Coulombe (ETS)
Date Time: 2011-05-17 From 09:15 To 10:30
Location: EV3-309
Chair: Alain Abran

Session: Software engineering - 2
Date Time: 2011-05-17 From 11:00 To 12:30
Location: EV2-184
Chair: Sylvia L. Osborn
-- **Visual Learning Techniques for Software Measurement** -- speaker info
   Juan J. Cuadrado-Gallego,   Pablo Rodriguez-Soria (Universidad de Alcala de Henares, Spain)
-- **Fastest Association Rule Mining Algorithm Predictor (FARM-AP)** -- speaker info
   Metanat Hooshsadat,   Hamman Waqar Samuel,   Sonal Patel,   Osmar Zaiane (University of Alberta, Canada)
-- **Simple Random Generation of Smooth Connected Irregular Shapes for Cognitive Studies** -- speaker info
   Nicolas Robidoux,   Peer Stelldinger,   John Cupitt (Laurentian University of Sudbury, Canada)

Session: Artificial intelligence
Date Time: 2011-05-17 From 13:30 To 15:00
Location: EV3-309
Chair: Nicolas Robidoux
-- **Performance Evaluation of Linear Subspace Methods for Face Recognition under Illumination Variation** -- speaker info
   Ajay Jaiswal,   R. K. Agrawal,   Nitin Kumar (Jawaharlal Nehru University, India)
-- **Protein Structure-Based Method for Identifying Horizontal Gene Transfer** -- speaker info
   Mark A Griep,   Peter Z. Revesz (University of Nebraska - Lincoln, United States)

  -- **Mixing Privacy with Role-Based Access Control**　--　speaker info
    Aiman Al-Harbi,　Sylvia L. Osborn (University of Waterloo, Canada)
Session: Applications
Date Time:　　　　　　　　2011-05-17　From　15:30　To　16:30
Location:　　　　　　　　EV3-309
Chair:　　　　　　　　Sanzheng Qiao
  -- **Multifaceted Faculty Network Design and Management: Practice and Experience**　--　speaker info
    Michael J. Assels,　Serguei A. Mokhov,　François Carrière (Concordia University, Canada)
  -- **An Online Academic Journal System for CINDI**　--　speaker info
    Zhao Kunsheng,　Bipin C. Desai,　Rui Chen,　Min Huang,　Ming Lu (Concordia University, Canada)
  -- **Occlusion Handling based on Sub-blobbing in Automated Video Surveillance System**　--　speaker info
    Mohammad Omair Alam (University of Windsor, Canada)
  -- **A New Fingerprint Matching Approach Using Level 2 and Level 3 Features**　--　speaker info
    Samaneh Mazaheri,　Rohollah Moosavi Tayebi (Zanjan Institute for Advanced Studies in Basic Sciences, Iran)

C* Conference on Computer Science & Software Engineering

$$C^3S^2E'12$$

June 27-29, 2012

Concordia University

Montreal, Canada

Editors: Bipin C. Desai, Sudhir Mudur, Emil Vassev

ConfSys.org

Final Program C3S2E12

Invited Talk

----**Foundations and Applications of Schema Mappings**

Phokion Kolaitis, Computer Science at UC Santa Cruz

Date Time:	2012-06-27 from 10:00 to 11:00
Location:	EV3-309
Chair :	Gosta Grahne (Concordia University)

Break 1

Session Type:	Break Session
Date Time:	2012-06-27 from 11:00 to 11:30
Location:	EV3-309
Chair :	Place Holder (Concordia University)

Applications

--**Evolving Dungeon Crawler Levels With Relative Placement**

Joseph Alexander Brown(University of Guelph), Terry Trowbridge(Brock University)

--**Unifying and Refactoring DMF to Support Concurrent Jini and JMS DMS in GIPSY**

Joseph Alexander Brown(University of Guelph), Terry Trowbridge(Brock University)

--**Using Poetry as a Teaching tool for the Humanities to Learn Computer Science Concepts**

Joseph Alexander Brown(University of Guelph), Terry Trowbridge(Brock University)

Date Time:	2012-06-27 from 11:30 to 13:00
Location:	EV3-309
Chair :	Samira Sadaoui (University of Regina)

Invited Talk 2

Health: a new concept and many new opportunities in the Age of Social Media

Alejandro (Alex) R. Jadad, University of Toronto and University Health Network

Date Time:	2012-06-27 from 14:00 to 15:15
Location:	EV3-309
Chair :	Sudhir Mudur (Concordia University)

Algorithms

--**Comparing and Combining Genetic and Clustering Algorithms for Software Component Identification from Object-Oriented Code**

Majid Sazvar(Ferdowsi University of Mashhad), Mahmoud Naghibzadeh(Ferdowsi University of Mashhad), Nayyereh Saadati(Mashhad University of Medical Sciences)

--**A Complexity Analysis of a Jacobi Method for Lattice Basis Reduction**

Majid Sazvar(Ferdowsi University of Mashhad), Mahmoud Naghibzadeh(Ferdowsi University of Mashhad), Nayyereh Saadati(Mashhad University of Medical Sciences)

--**Quick-MLCS: A New Algorithm for the Multiple Longest Common Subsequence Problem**

Majid Sazvar(Ferdowsi University of Mashhad), Mahmoud Naghibzadeh(Ferdowsi University of Mashhad), Nayyereh Saadati(Mashhad University of Medical Sciences)

Date Time:	2012-06-27 from 15:45 to 17:15
Location:	EV3-309
Chair :	Peter D Grogono (Concordia University)

Artificial intelligence

--**An adaptive computational model for emotion regulation strategies based on Gross theory**

Iker Gondra(St. Francis Xavier University), Fahim Irfan Alam(St. Francis Xavier University)

--Extracting Left Ventricular Contour by MVN_CNN, UBN_CNN and Region Based Level Set Method

Iker Gondra(St. Francis Xavier University), Fahim Irfan Alam(St. Francis Xavier University)

--Incorporating Shape into Spatially-aware Adaptive Object Segmentation Algorithm

Iker Gondra(St. Francis Xavier University), Fahim Irfan Alam(St. Francis Xavier University)

Date Time:	2012-06-28 from 09:30 to 11:00
Location:	EV3-309
Chair :	Benoit Gaudin (University of Limerick)

C S S E

--Ontology Based Information System Application (OBISA)

Mahmood Hossain(Fairmont State University), Susan M Bridges(Mississippi State University), Yong Wang(Mississippi State University), Julia E Hodges(Mississippi State University)

--SRAD: A SEMANTIC RAPID METHOD FOR SOFTWARE DEVELOPMENT

Mahmood Hossain(Fairmont State University), Susan M Bridges(Mississippi State University), Yong Wang(Mississippi State University), Julia E Hodges(Mississippi State University)

--Real-time Modeling and Physical-Based Animation of a Jellyfish from Softbody in OpenGL

Mahmood Hossain(Fairmont State University), Susan M Bridges(Mississippi State University), Yong Wang(Mississippi State University), Julia E Hodges(Mississippi State University)

--Fleshing Out Gestures: Augmenting 3D Interaction

Mahmood Hossain(Fairmont State University), Susan M Bridges(Mississippi State University), Yong Wang(Mississippi State University), Julia E Hodges(Mississippi State University)

--An Effective Ensemble Method for Hierarchical Clustering

Mahmood Hossain(Fairmont State University), Susan M Bridges(Mississippi State University), Yong Wang(Mississippi State University), Julia E Hodges(Mississippi State University)

Date Time:	2012-06-28 from 11:30 to 12:30
Location:	EV3-309
Chair :	Joey Paquet (Concordia University)

FMSAS Workshop

--A Survey on Formal Methods in Self-Adaptive Systems

Benoit Gaudin(University of Limerick), Patrick Nixon(University of Tasmania)

--Soft Constraints for KnowLang

Benoit Gaudin(University of Limerick), Patrick Nixon(University of Tasmania)

--The AdaptiV Approach to Verification of Adaptive Systems

Benoit Gaudin(University of Limerick), Patrick Nixon(University of Tasmania)

--Knowledge Representation for Self-Adaptive Behavior

Benoit Gaudin(University of Limerick), Patrick Nixon(University of Tasmania)

--Supervisory Control for Software Runtime Exception Avoidance

Benoit Gaudin(University of Limerick), Patrick Nixon(University of Tasmania)

Date Time:	2012-06-28 from 13:30 to 16:30
Location:	EV3-309
Chair :	Emil Iordanov Vassev (University of Limerick)

Guided Tour: Beyond Pop Art: Tom Wesselmann

Session Type:	Break Session
Date Time:	2012-06-28 from 16:45 to 18:00
Location:	MMFA: Desmarais Pavilion

Dinner

Session Type: Break Session
Date Time: 2012-06-28 from 18:30 to 20:30
Location: Cafe DES BEAUX-ARTS

C3S2E'13 Final Program

Session: Regsitration 1

Date Time:	2013-07-10 From 09:00 To 16:00	**Location:**

Session: Opening & Invited Talk 1

Date Time:	2013-07-10 From 09:30 To 10:45	**Location:**
Chair:	Ana Maria Almeida	

-- **Open Service Networks: Research Directions()**
   Jorge Cardoso

Break 1

Date Time:	2013-07-10 From 10:45 To 11:00	**Location:**

Session: Software engineering - 1

Date Time:	2013-07-10 From 11:15 To 12:45	**Location:**
Chair:	Jorge Cardoso	

-- **dCloud: A Document Link Provision Cloud for Software Extension Tasks(Full Paper)**
   Dung-feng Yu, Chien-wei Hu, Hewijin Christine Jiau, Kuo-feng Ssu

-- **Autonomous Massively Multiplayer Online Game Operation on Unreliable Resources(Full Paper)**
Lukas Köpfle, Radu Prodan
-- **SLA-based Operation of Massively Multiplayer Online Games in Competition-based Environments(Full Paper)**
Radu Prodan

Lunch 1

| Date Time: | 2013-07-10 From 12:45 To 14:15 | **Location:** |

Session: Applications

| Date Time: | 2013-07-10 From 14:15 To 15:15 | **Location:** |

| Chair: | Eric R. Harley |

-- **Open Source Capture and Replay Tools Comparison(Short Paper)**
Stanislava Nedyalkova, Jorge Bernardino
-- **CA-SRP: An Energy-Efficient Concurrency Control Protocol for Real-Time Tasks with Abortable Critical Sections(Short Pap**

Jun Wu
-- **An Intelligent System for Personalized Information Retrieval: A Genetic Approach(Short Paper)**
Tarek Alloui, Imane Boussebough, Allaoua Chaoui

Break 2

| Date Time: | 2013-07-10 From 15:15 To 14:45 | **Location:** |

Session: Web database

| Date Time: | 2013-07-10 From 15:45 To 17:15 | **Location:** |

| Chair: | Radu Prodan |

-- **NoSQL Databases: MongoDB vs Cassandra(Full Paper)**
Veronika Abramova, Jorge Bernardino
-- **Collective Intelligence in Toursplan An Online Tourism Social Network with Planning and Recommendation Services(Full Paper)**
Nuno Luz, Ana Maria Almeida
-- **Static Analysis Of Concurrent Programs By Adapted Vector Clock(Full Paper)**
Maryam Zakeryfar, Peter D Grogono

Reception

| Date Time: | 2013-07-10 From 17:30 To 18:30 | **Location:** |

Session: Regsitration 2

| Date Time: | 2013-07-11 From 09:00 To 12:00 | **Location:** |

Session: Invited Talk 2

| Date Time: | 2013-07-11 From 09:30 To 10:30 | **Location:** |

| Chair: | Jorge Bernardino |

-- **Binary Recommender Systems: introduction, an application and outlook()**
   Alípio M. Jorge

Break 3

| Date Time: | 2013-07-11 From 10:30 To 11:00 | **Location:** |

Session: Software engineering-2

| Date Time: | 2013-07-11 From 11:00 To 12:30 | **Location:** |

| Chair: | Alípio M. Jorge |

-- **Autonomy Requirements Engineering: A Case Study on the BepiColombo Mission(Full Paper)**
   Emil Iordanov Vassev, Mike Hinchey
-- **SimSOTA: Engineering and Simulating Feedback Loops for Self-Adaptive Systems(Full Paper)**
   Dhaminda B. Abeywickrama, Nicklas Hoch, Franco Zambonelli
-- **A Taxonomy of Architectural Patterns for Self-Adaptive Systems(Full Paper)**
   Mariachiara Puviani, Giacomo Cabri, Franco Zambonelli

Lunch 2

| Date Time: | 2013-07-11 From 12:30 To 14:15 | **Location:** |

Session: Data mining - 2

| Date Time: | 2013-07-11 From 13:45 To 14:45 | **Location:** |

| Chair: | Emil Iordanov Vassev |

-- **Comparison of Data Mining techniques and tools for data classification(Short Paper)**
  Luís C. Borges, Viriato Marinho Marques, Jorge Bernardino
-- **A comparison between JAVA and PHP(Poster)**
  Pedro Caldeira Neves, Nuno Alexandre Paiva, Joao Duraes
-- **Towards a Mostly-Automated Prover for Bit-Vector Arithmetic(Poster)**
  Iago Abal, Jorge Sousa Pinto
-- **OpenBRR Evaluation of an Open Source BI Suite(Poster)**
  António Marinheiro, Jorge Bernardino
-- **Code name Tiberius or Developing and Digging into a Financial Case-Based Reasoning System from Scratch with Respect Conservative Adaptation and Association Models driven by Knowledge Discovery(Poster)**
  Jürgen Hönigl
-- **Step Count Algorithm adapted to Indoor Localization(Poster)**
  Lino Figueiredo, Ramiro Sousa Barbosa

Break 4

Date Time:	2013-07-11 From 14:45 To 15:15	**Location:**

Session: Data mining

Date Time:	2013-07-11 From 15:15 To 16:45	**Location:**
Chair:	Giacomo Cabri	

-- **Classifying Heart Sounds using Multiresolution Time Series Motifs: an exploratory study(Full Paper)**
  Elsa Ferreira Gomes
-- **Protein structural class prediction using predicted secondary structure and hydropathy profile(Full Paper)**
  Eric R. Harley, Syeda Nadia Firdaus
-- **ConfSys: A Kaizen Conference Management System(Full Paper)**
  Ming Lu, Zhao Kunsheng, Bipin C. Desai

Dinner

Date Time:	2013-07-11 From 17:00 To 21:00	**Location:**

C³S²E

C3S2E'14 August 4-6, 2014

Montreal, QC, Canada

Preface

C^{3}S^{2}E'14 is the seventh annual meeting in this conference series and is hosted by Concordia University, Montreal between August 4 and 6, 2014. The conference aims to address the current and future needs of the academic community in computer science and software engineering. It also serves as a platform to present new findings on theoretical or practical aspects of computer science and software engineering, share experiences on integrating new technologies into products and applications, discuss the work on applying computing and software engineering to real-life situations, update the development and operations of challenging computing related systems, and identify unsolved challenges.

C^{3}S^{2}E'14 continues to keep to the tradition for inviting international experts in various areas of computer science and software engineering to join our program committee. This committee has done an excellent job in completing the single-blind review and on-line double-blind debate processes in record time. The paper selection process was thorough and competitive. On average, each paper was refereed by at least three reviewers. About 81% of reviews were submitted by the due date and about 3.4 reviews were received for each paper. From the submissions, 15 were selected as full and 11 as short papers. This allowed us to maintain a standard of high quality with full paper acceptance of 24% and a further 18% for the short papers.

This conference would not have been possible without the help and effort of many people and organizations. Thanks are owed to   ACM(Anna Lacson, Craig Rodkin, Deborah Cotton), BytePress/ConfSys.org, and Concordia University(CSE, ENCS, Financial services), for their support of this conference. We are grateful to members of the Program Committee for their professionalism and dedication in the process of judging the contributions of papers and producing constructive comments to the authors.

Bipin C Desai
Montreal, August 2014

C³S²E'14 Final Program

Session: Registration 1

Date Time:	2014-08-04 From 09:30 To 15:30
Location:	EV2-184
Chair:	Jianhui Zhu

Morning Coffee

Date Time:	2014-08-04 From 9:30 To 10:20
Location:	EV2-184

Session: Opening

Date Time:	2014-08-04 From 10:25 To 10:30
Location:	EV3-309
Chair:	Bipin C. Desai

Session: Software engineering

Date Time:	2014-08-04 From 10:30 To 12:30
Location:	EV3-309
Chair:	Joey Paquet

-- **Classification and Generation of Grammatical Errors (Full Paper)**
   Anthony Penniston, Eric R. Harley
-- **Verification and Code Generation for Timed Transitions in pCharts (Full Paper)**

Bojan Nokovic, Emil Sekerinski

-- Software Specification and Automatic Code Generation to Realize Homeostatic Adaptation in Unmanned Spacecraft (Full Paper)
Carlos C. Insaurralde, Emil Iordanov Vassev

Lunch 1

Date Time:	2014-08-04 From 12:30 To 13:40
Location:	EV2-184

Session: Computer security

Date Time:	2014-08-04 From 13:40 To 15:00
Location:	EV3-309
Chair:	Serguei A. Mokhov

-- Toward Automated MAC Spoofer Investigations (Short Paper)
Serguei A. Mokhov, Michael J. Assels, Joey Paquet, Mourad Debbabi
-- Binary Linear Programming-based Release Planning for Multi-tenant Business SaaS (Full Paper)
Mubarak Rashed Alrashoud, Lubaid Ahmed, Abdolreza Abhari
-- On the Dynamic Scheduling of Task Farm Patterns on a Heterogeneous CPU-GPGPU Environment (Full Paper)
Wei Zhang, Dhrubajyoti Goswami, Bahareh Goodarzi

Coffee Break 2

Date Time:	2014-08-04 From 15:00 To 15:30
Location:	EV2-184

Session: Data Models

Date Time:	2014-08-04 From 15:30 To 16:45
Location:	EV3-309
Chair:	Hovhannes A Harutyunyan

-- Application of PR Techniques to Mail Sorting in China (Full Paper)
Li Liu, Shujing Lu, Yue Lu, Ching Y. Suen
-- Finding Periodic Regularities on Sequential Data: Converging, Diverging and Cyclic Patterns (Short Paper)
António Carlos Barreto, Cláudia Antunes
-- A new conceptual model for dynamic text clustering Using unstructured text as a case (Full Paper)
Choukri Djellali

Reception

Date Time:	2014-08-04 From 17:00 To 19:00
Location:	EV4-101

Session: Registration 2

Date Time:	2014-08-05 From 09:00 To 15:30
Location:	EV2-184
Chair:	Jianhui Zhu

Session: Invited Talk:

Automatic Analysis and Quantification of High-content Biological Images,

Jie Zhou
Dr. Jie Zhou is an Associate Professor of Computer Science at Northern Illinois University, USA. Her main research interests include pattern recognitio algorithms and applications in biomedicine. She is a senior member of the IEEE. She is an associate editor and editorial board member of the Pattern Recognition Journal. She has been a reviewer of many journals and conferences in the field and has given talks at various international institutes and conferences. Her research is supported by Northern Illinois University, Burroughs Wellcome Foundation, and National Institute of Health, USA.

Date Time:	2014-08-05 From 09:15 To 10:30
Location:	EV3-309
Chair:	Ching Y. Suen

Coffee Break 3

Date Time:	2014-08-05 From 10:30 To 11:00
Location:	EV2-184

Session: Algorithms

Date Time:	2014-08-05 From 11:00 To 12:15
Location:	EV3-309
Chair:	Emil Iordanov Vassev

-- **New Properties for Broadcasting in KG_2^k (Full Paper)**
   Sirma Cagil Altay, Hovhannes Harutyunyan
-- **Cloud BI for Virtual Organizations (Full Paper)**
   Jorge Bernardino, Ana Maria Almeida, Joel Ricardo
-- **Formalizing eMobility with KnowLang (Full Paper)**
   Emil Iordanov Vassev, Nicklas Hoch, Henry Bensler, Mike Hinchey

Lunch 2

Date Time:	2014-08-05 From 12:30 To 13:30
Location:	EV2-184

Session: Topics in CSE

Date Time:	2014-08-05 From 13:30 To 15:00
Location:	EV3-309
Chair:	Ana Maria Almeida

-- **Identifying Questions & Requests in Conversation (Full Paper)**
  Kevin Quinn, Osmar Zaiane
-- **Toward Policy-Based Dynamic Context-Aware Adaptation Architecture for Web Service Composition (Short Paper)**
  Touraj Laleh, Arash Khodadadi, Serguei A. Mokhov, Joey Paquet, Yuhong Yan
-- **Using Category Theory and Data Flow Analysis for Modeling and Verifying Properties of Communications in the Process-Oriented Language Erasmus (Short Paper)**
  Ming Zhu, Peter D Grogono, Olga Ormandjieva, Pankaj Kamthan
-- **Exploring the diameter and broadcast time of general Knödel graphs using extensive simulations (Short Paper)**
  Gul Bahar Oad, Hovhannes A Harutyunyan

Coffee Break 4

Date Time:	2014-08-05 From 15:00 To 15:30
Location:	EV2-184

Session: Data mining

Date Time:	2014-08-05 From 15:30 To 16:10
Location:	EV3-309
Chair:	Lino Figueiredo

-- **Method for the Evaluation of Open Source Software Quality from an IT Untrained User Perspective (Short Paper)**
  Jonathan Roy, Clément Contini, François Brodeur, Ndiack Diouf, Witold Suryn
-- **Open Source CRM Systems for SMEs (Short Paper)**
  Diogo Cardoso Sampaio, Jorge Bernardino

Private Guide Tour - FABERGÉ: Jeweller to the Czars
Meet at MMFA 1379 Sherbrooke St. W just before 4:50 PM.
The museum is walking distance from the EV building.

Date Time:	2014-08-05 From 16:45 To 18:00
Location:	MMFA 1379 Sherbrooke St. W., Montréal

C3S2E14 - Dinner
Club Atwater, 3505 Avenue Atwater, Montréal
The club is walking distance from the EV building and the museum.

Date Time:	2014-08-05 From 18:30 To 21:30
Location:	Club Atwater, 3505 Avenue Atwater, Montréal

Date Time:	2014-08-06 From 10:30 To 13:00
Location:	EV3-309
Chair:	Bipin C. Desai

IF THE PRESENTATION FOR A PAPER WAS NOT UPLOADED BY THE DEADLINE, IT WOULD HAVE TO BE SKIPP

-- **Graph Data Transformations and Querying (Short Paper)**
  Maria C. Pabon, Claudia Roncancio, Martha Millán
-- **Proposed architecture and algorithm for academic personnel evaluation and decision support making (Short Paper)**
  Dimitrios Tomtsis, Sotirios Kontogiannis, George Kokkonis, Ioannis Kazanidis, Stavros Valsamidis
-- **Label-bag based Graph Anonymization via Edge Addition (Full Paper)**
  Chongjie Li, Toshiyuki Amagasa, Hiroyuki Kitagawa, Gautam Srivastava
-- **EFFICIENT AND ROBUST CONSTRAINT AUTOMATON-BASED GENOME ASSEMBLY (Full Paper)**
  Peter Z. Revesz, Dipty Singh
-- **A Design Time Estimation Methodology for Spatial Databases (Short Paper)**
  Giuseppe Polese, Monica Sebillo
-- **An Alternative View of Fairness in Petri Nets (Short Paper)**
  Martin Ibl
-- **A Robust Daily Human Activity Recognition and Prediction System (Full Paper)**
  Md Zia Uddin
-- **FDKeeper: A Quick and Open Failure Detector for Cloud Computing System (Full Paper)**
  Fengwei Wang, Hai Jin, Deqing Zou, Weizhong Qiang
-- **Adaptive composition of services in context-aware ambient intelligent systems (Short Paper)**
  Chaib Aouatef, Imane Boussebough, Allaoua Chaoui

Eighth International
C* Conference on Computer Science & Software Engineering

C^3S^2E

ConfSys.org

Keio University
Hiyoshi Campus (Yokohama)
July 13 – 15, 2015

C3S2E 15 Final Program

C3S2E Session: Applications   2015-07-13   12:00   To   13:00

Location: Medium conference room (2nd floor)

Chair:

-- **Detecting Representative Tweets of Microblogging Users(Short Paper)**

Shuangyong Winter Song, Yao Meng

-- **Pragamana: Performance Comparison and Programming Alpha-miner Algorithm in Relational Database Query Language and NoSQL Column-Oriented Using Apache Phoenix(Short Paper)**

Kunal Gupta, Astha Sachdev, Ashish Sureka

-- **Efficient Skyline Itemsets Mining(Short Paper)**

Vikram Goyal, Ashish Sureka, Dhaval Patel

C3S2E   Session: Algorithms   2015-07-13   14:00   To   15:30

Location: Medium conference room (2nd floor)

Chair:

-- **Frequent Subgraph Mining from Streams of Uncertain Data(Full Paper)**

Carson K. Leung, Alfredo Cuzzocrea

-- **Big Social Network Mining for "Following" Patterns(Full Paper)**

Fan Jiang, Kyoji Kawagoe, Carson K. Leung

-- **Context-Aware Cloud Service Brokerage: A Solution to the Problem of Data Integration Among SaaS Providers(Full Paper)**

Touraj Laleh, Serguei A. Mokhov, Joey paquet, Yuhong Yan

C3S2E   Session: Web mining   2015-07-13   16:00   To   17:00

Location: Medium conference room (2nd floor)

Chair:

-- **Semantics-Assisted Deep Web Query Interface Classification(Full Paper)**

Chichang Jou

-- **Premises of an algebra of Japanese characters(Full Paper)**

Antoine Bossard

C3S2E   Session: Formal methods 2015-07-14   12:00   To   13:00

Location: Medium conference room (2nd floor)

Chair:

-- **Clustering-based Approach for Categorizing Pregnant Women in Obstetrics and Maternity Care(Short Paper)**

Sónia Pereira, Filipe Portela, Manuel Filipe Santos, José Machado, António Abelha

-- **REST API Management and Evolution Using MDA(Short Paper)**

Marek Polák, Irena Holubova

-- **A Framework for Big Data Analytics(Short Paper)**

Verena Kantere, Maxim Filatov

C3S2E Session: Applications -1   2015-07-14   14:00   To   15:00

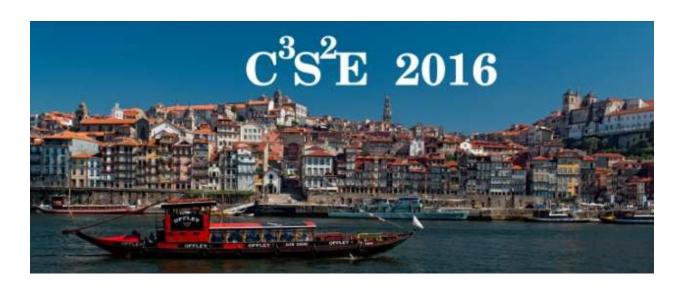Location: Medium conference room (2nd floor)

Chair:

-- **Mining High-Utility Itemsets with Multiple Minimum Utility Thresholds(Full Paper)**

Jerry Chun-wei Lin, Wensheng Gan, Philippe Fournier-viger, Tzung-Pei Hong

-- **User Agent and Privacy Compromise(Full Paper)**

Jianhui Zhu, Bipin C. Desai

C3S2E 2016 Conference Program

Session: Invited Talk
Prof. Inês Dutra (Faculty of Science, University of Porto)

Date Time:	2016-07-20 From 09:30 To 10:30
Chair:	Ana Maria Almeida

Session: Big Data and applications

Date Time:	2016-07-20 From 11:00 To 12:30
Chair:	Tba -------- Tba

  -- **Efficient Delivery of Forecasts to a Nautical Sports Mobile Application with Semantic Data Services(Full Paper)**
    Ricardo Carvalho Amorim, Artur Rocha, Marco Oliveira, Cristina Ribeiro
  -- **Sentiment Aggregate Functions for Political Opinion Polling using Microblog Streams(Full Paper)**
    Pedro Saleiro, Luís Gomes, Carlos Soares
  -- **Data Warehousing in Big Data: From Multidimensional to Tabular Data Models(Full Paper)**
    Maribel Yasmina Santos, Carlos Costa

Session: Applications

Date Time:	2016-07-20 From 13:30 To 15:00
Chair:	Alípio M. Jorge

  -- **Building an Emotional Adaptive Platform(Full Paper)**
    Ana Raquel Faria, Ana Maria Almeida, Constantino Martins, Lino Figueiredo
  -- **Voice recognition in the LabTablet electronic laboratory notebook(Full Paper)**
    Susana Ventura, Ricardo Carvalho Amorim, João Rocha Da Silva, Cristina Ribeiro
  -- **COMPASS: A Context-Monitoring Programming Assignment Suggestion System(Full Paper)**
    Chien-wei Hu, Hewijin Christine Jiau

Session: Image processing

Date Time:	2016-07-20 From 15:00 To 16:45
Chair:	Tba -------- Tba

-- **GPII: A Benchmark for Generic Purpose Image Information(Short Paper)**
Pedro Miguel Oliveira Martins, Pedro Furtado, José Cecilio, Maryam Abbasii

-- **Problems in Agile Global Software Engineering Projects especially within Traditionally Organised Corporations(Full Paper)**
Ingo Richter, Florian Raith, Michael Weber

-- **Using Smartphones to Classify Urban Sounds(Full Paper)**
Elsa Ferreira Gomes, Fabio Moreira Batista, Alípio M. Jorge

-- **Ontology Based Rewritting Data Cleaning Operations(Short Paper)**
Ricardo Gabriel Almeida, Paulo Maio, Paulo Jorge Oliveira

Session: Applications - 2

Date Time:	2016-07-20 From 15:30 To 17:00
Chair:	Elsa Ferreira Gomes

-- **Tourism Recommendation System based in user's profile and functionality levels(Short Paper)**
Filipe Joaqquim Santos, Ana Maria Almeida, Constantino Martins, Paulo Oliveira, Ramiro Gonçalves

-- **ECG denoising with Adaptive Filter and Singular Value Decomposition techniques(Short Paper)**
Ana Maria Almeida, Lino Figueiredo, Antonio Meireles

-- **Decision Support System for Check-up Tracks in Prevention of Cardiac Diseases(Short Paper)**
Manuel Américo Rocha, Sérgio Miguel Santos, António Lúcio Baptista

-- **Music Playlist Recommendation Using Acoustic-Feature Transitions(Short Paper)**
Shobu Ikeda, Kenta Oku, Kyoji Kawagoe

Conference Dinner
Conference Dinner

Date Time:	2016-07-20 From 18:00 To 21:00

Session: Big Data and applications - 2

Date Time:	2016-07-21 From 09:30 To 11:00
Location:	TBA
Chair:	Bipin C. Desai

-- **Business Intelligence: Future Perspectives(Short Paper)**
Duarte Castelo Grande De Carvalho, Ricardo Gomes Da Rocha, Vanessa Sofia Pereira Pais Fernandes, Sofia Pereira Das Neves

-- **Analysis and Visualisation of Crowd-sourced Tourism Data(Short Paper)**
Fátima Leal, Joana Matos Dias, Benedita Malheiro, Juan Carlos Burguillo

-- **An Overview of Evolutionary Computing for Interpretation in the Oil and Gas Industry(Short Paper)**
Rui L. Lopes, Hamed Nikhalat-jahromi, Alípio M. Jorge

-- **A Novel Differential Privacy Approach that enhances Classification Accuracy(Short**

Paper)
    A. N. K. Zaman, Charlie Obimbo, Rozita A. Dara

Session: Machine learning

Date Time:	2016-07-21 From 11:30 To 13:00
Chair:	Jorge Bernardino

 -- **Predicting User Preference Based on Matrix Factorization by Exploiting Music Attributes(Full Paper)**
    Amir Hossein Nabizadeh, Alípio M. Jorge, Suhua Tang, Yi Yu

 -- **Automatic Classification of Anuran Sounds Using Convolutional Neural Networks(Full Paper)**
    Juan Colonna, Tanel Peet, Carlos Abreu Ferreira, Alípio M. Jorge, Elsa Ferreira Gomes, João Gama

 -- **Assessing topic discovery evaluation measures on Facebook publications on political activism in Brazil(Full Paper)**
    Arian Pasquali, Marcela Canavarro, Alípio M. Jorge, Ricardo Campos

Session: Data mining

Date Time:	2016-07-21 From 14:00 To 15:00
Chair:	Bertil P. Marques

 -- **PersonalFit – Fitness App with intelligent plan generator(Poster)**
    Tiago Oliveira, Diogo Leite, Goreti Marreiros

 -- **Predicting a Starting Pitcher in Baseball by Heuristic Rules(Poster)**
    Haruka Sumitani, Kenta Oku, Kyoji Kawagoe

 -- **SentiBubbles: Topic Modeling and Sentiment Visualization of Entity-centric Tweets(Poster)**
    Mike Pinto, João Oliveira, Pedro Saleiro, Jorge Teixeira

 -- **Gathering data for professional tourism points of interest(Poster)**
    Helder Nunes, Constantino Martins, Ana Maria Almeida

 -- **Testing Snort with SQL Injection Attacks(Poster)**
    Rui Rama Silva, Raul Barbosa, Jorge Bernardino

 -- **Personalization using Big Data Analytics Platforms(Poster)**
    Cláudio Barros Lopes, Bruno Cabral, Jorge Bernardino