Dr. Pierre Andrews

Email: pierre.andrews@gmail.com
Age: 31
Nationalities: French, British.

Education

Ph.D. Computer Science   The University of York
                                                       Unilever R&D
October 2004 – December 2008   United Kingdom

The research performed during my Ph.D. thesis aimed at developing techniques for achieving persuasive dialogue between a human user and the computer in collaboration with Unilever R&D. In particular, it focused on the formalisation of argumentation for dialogue planning in combination with a novel framework for dialogue management to improve both the reactivity of the dialogue system and its persuasiveness.

Engineering Degree   Ecole Polytechnique Fédérale de Lausanne
(B.Sc.+M.Sc.), Computer Science
October 1999 – March 2004   Switzerland

Master Thesis: Semantic Topic Extraction and Segmentation for Efficient Document Visualization.

French Scientific Baccalauréat   Collège du Léman
July 1998   Switzerland

Work Experience

Research Fellow   University of Trento
March 2009 – present   Trento, Italy

· Worked on interactive intelligent interfaces; combining research in human-computer interaction, natural language processing, machine learning and knowledge modeling.

· Co-managed the Knowledge and Diversity (Knowdive) research unit contributions to the INSEMTIVES EU FP7 project (2009–present);

  ○ Developed an semantic annotation system,

  ○ Developed a sense induction algorithm from folksonomies,

  ○ Researched the issues of semantic tagging in folksonomies,

  ○ Wrote seven deliverables and five peer-reviewed publications.

· Managed the Knowdive research unit contributions to the GLOCAL EU FP7 project (2010–present);

  ○ Developed a semantic event management system,

  ○ Developed an Android event management application,

  ○ Researched user motivations for media creation,

  ○ Wrote two deliverables and two peer-reviewed publications.

· Co-supervised three Ph.D. students. One already completed his Ph.D. successfully.

Teaching Assistant

The University of York – Department of Computer Science

October 2008 – November 2008   York, United Kingdom

Taught the course Advanced Java Programming Concepts for Msc. IT and Msc. Computing; introducing master students to programming principles and object oriented programming in Java.

Research Assistant

Ecole Polytechnique Fédérale de Lausanne

June – October 2003   Lausanne, Switzerland

Wrote a state of the art deliverable about "Document processing and visualization techniques" for the European Network of Excellence in Text Mining and its applications in Statistics (NEMIS) with Dr. Martin Rajman.

Open Source Development

2003 – present

17 plugins in PHP, XHTML/HTML5 and Javascript; 45 contributions in SPIP template language; Greasemonkey scripting for Flickr.com (22 scripts) and other web sites;

Java Programmer

Cogito-Info

July – October 2002   Neuchatel, Switzerland

Developed an SMS communication server with JBoss server framework and the Java Messaging System (JMS).

Java Developer (internship)

European Organization for Nuclear Research

June – August 1998   Geneva, Switzerland

Development of a Java Swing GUI managing the quality assessment workflow for the CMS detector's components within the LHC particle detector's.

Technical Specialities

Research: Natural Language Processing, Human-Computer Interaction, Semantic Web, Artificial Intelligence.

Technologies: Java: JSP/Servlet(J2EE), Swing, Android, Hibernate, Spring; MySQL, PostgresSQL, SQLite; SPIP, AJAX, Greasemonkey; JSON/XML Rest APIs, RDF, N3.

Programming Languages: Java, JavaScript, PHP, XHTML/HTML5, Perl, Lisp, Prolog, SQL.

Other Teaching Experience

Demonstrated for the following courses:

Natural Language Processing 2005 – 2006 The University Of York.

Introduction to Databases 2001 EPFL.

Introduction to Programming (Java) 2001 – 2002 EPFL.

Object Oriented Programming (OOP, SmallTalk, Java) 2001 EPFL.

Languages

French *(native)*, English *(fluent)*, Italian *(fluent)*.

Publications

2011

Clues of Personal Events in Online Photo Sharing
Pierre Andrews, Javier Paniagua and Fausto Giunchiglia
DERIVE 2011 – Detection, Representation, and Exploitation of Events in the Semantic Web Workshop – 10th International Semantic Web Conference 2011

Adopting Semantic Annotation Systems for Corporate Portal Management – the Telefonica Case Study
Ilya Zaihrayeu, German Toro del Valle, Juan Pane, Pierre Andrews
7th International Conference on Semantic Systems

Supporting Semantic Annotations in Flickr
Pierre Andrews, Juan Pane, Ilya Zaihrayeu and Aliaxandr Autayeu
IEEE International Conference on Intelligent Computer Communication and Processing

Semantic Annotation of Images on Flickr
Pierre Andrews, Sergey Kanshin, Juan Pane, and Ilya Zaihrayeu
8th Extended Semantic Web Conference, Springer LNSC

Semantic Disambiguation in Folksonomy; a Case Study
Pierre Andrews, Juan Pane and Ilya Zaihrayeu
Advanced Language Technologies for Digital Libraries – Springer LNCS Hot Topic subline

Sense Induction in Folksonomies
Pierre Andrews, Juan Pane and Ilya Zaihrayeu
Workshop on Discovering Meaning On the Go in Large Heterogeneous Data – IJCAI'11

Extending Conversational Agents for Task-Oriented Human-Computer Dialogue
Pierre Andrews and Silvia Quarteroni
Conversational Agents and Natural Language Interaction; Techniques and Effective Practices
IGI Global Publishers

2010

Lightweight Parsing of Classications into Lightweight Ontologies
Aliaksandr Autayeu, Fausto Giunchiglia, and Pierre Andrews
European Conference on Research and Advanced Technology for Digital Libraries (ECDL)

Keynote @ Webcentives 2010
Pierre Andrews
Incentives and Motivation for Web-Based Collaboration (Webcentives)
9th International Conference on the Design of Cooperative Systems

Media Aggregation via Events
Fausto Giunchiglia, Pierre Andrews, Gaia Trecarichi, and Ronald Chenu-Abente
1st International Workshop EVENTS 2010 at The 6th Hellenic Conference on Artificial Intelligence

Recommendations for Better Quality Ontology Matching Evaluations
Aliaksandr Autayeu, Vincenzo Maltese and Pierre Andrews
In proceedings of the AISB Workshop on Matching and Meaning

2009

Best Practices for Ontology Matching Tools Evaluation
Aliaksandr Autayeu, Vicenzo Maltese, and Pierre Andrews
ISWC Ontology Matching Workshop

A SVM Cascade for Agreement/Disagreement Classification
Pierre Andrews and Suresh Manandhar
Journal Traitement Automatique des Langues, special issue on Machine Learning for NLP, TAL 50:3

Lightweight Parsing of Natural Language Metadata
Aliaksandr Autayeu, Fausto Giunchiglia and Pierre Andrews
In Natural Language Processing for Digital Libraries (NLP4DL) Workshop

Measure Of Belief Change as an Evaluation of Persuasion
Pierre Andrews and Suresh Manandhar
Symposium on Persuasive Technology and Digital Behaviour Intervention – AISB'09

2008

Proceedings of the 2nd York Doctorial Symposium
Pierre Andrews and Tom Lampert, editors
Technical Report YCS-2008-434 by the Department of Computer Science, University of York

Argumentative Human Computer Dialogue for Automated Persuasion
Pierre Andrews, Suresh Manandhar and Marco De Boni
SIGdial –ACL

2006

Integrating Emotions in Persuasive Dialogue: A Multi-Layer Reasoning Framework
Pierre Andrews, Suresh Manandhar and Marco De Boni
FLAIRS

Persuasive Argumentation in Human Computer Dialogue
Pierre Andrews and Marco De Boni and Suresh Manandhar
AAAI Spring Symposia

SPIP Mémento
Pierre Andrews and Vincent Caron
Eyrolles publications

2004

Semantic Topic Extraction and Segmentation for Efficient Document Visualization
Pierre Andrews
EPFL Technical Report IC/2004/68

Document Processing and Visualization Techniques
Martin Rajman, Martin Vesely and Pierre Andrews
NEMIS Network of Excellence deliverable