As the Web continually grows and evolves, many new problems and challenges are being introduced. The WI-IAT workshops aim to provide an excellent opportunity for researchers who share similar research interests from all over the world to meet and address new research challenges and initiatives that pertain to Web Intelligence (WI) and Intelligent Agent Technology (IAT). The Workshops provide a venue and forum for contributions in specialized sub-areas of Web Intelligence and Agent Technology, and allow authors to present new and emerging trends in methods and technologies to dedicated audiences.

The organizers received 27 proposals for WI-IAT 2007 workshop, out of which 13 were accepted, representing a variety of selected special topics. The workshops received 264 submissions in total. The acceptance rate for published papers is 52%. Each paper submitted to the workshops was reviewed by at least two program committee members and, using these reviews, the workshop organizers selected papers for inclusion in the workshop proceedings and presentation at the conference. The acceptance decisions of all workshops were further scrutinized by the workshop co-chairs. This three-level decision process ensures that the workshop proceedings is a well sought out source of high quality papers in emerging research areas. The following paragraphs briefly introduce the 13 workshops.

The International Workshop on Collective Intelligence on Semantic Web is organized by Geun-Sik Jo, Jason J. Jung and Ngoc Thanh Nguyen. A key issue for Collective Intelligence is that of collaboratively sharing knowledge and even generating new knowledge by integrating individuals' intelligence. This workshop is focusing on two main issues; i) how to apply semantic web technologies, e.g., ontology mapping, and ii) how to apply social network analysis methods. In particular, many web 2.0 platforms (e.g., blogs and wikis) have been developed to exchange meaningful information and support user-centred tasks on a variety of domains (e.g., e-learning, e-commerce, and e-government). Its aim is to bring together researchers and practitioners in areas of knowledge and intelligence, semantics, and grid computing to share their visions, research achievements and solutions to real applications, to resolve the challenge issues and to establish worldwide cooperative research and development.

The International Workshop on New Computing Paradigms for Web Intelligence and Brain Informatics (WImBI 2007) is organized by Yuefeng Li, Yulin Qin and Dieter Fensel. This workshop is based on a new perspective of Web Intelligence (WI) research in terms of Brain Informatics (BI), which is the second workshop for this research. It provides a new interdisciplinary field to study human information processing mechanism systematically from both macro and micro points of view by cooperatively using experimental cognitive neuroscience and WI centric advanced information technology. It is argued that new instrumentation (fMRI etc.) and advanced information technology are causing an impending revolution in Web intelligence and Brain Sciences (BS). This revolution is bi-directional: new understanding and discovery of human intelligence models in BS will yield a new generation of WI research and development; and WI based portal techniques will provide a new powerful platform for BS. The synergy between WI with BI will yield profound advances in the analyzing and understanding of the mechanism of data, knowledge, intelligence and wisdom, as well as their relationship, organization and creation process.

The International Workshop on Web Personalization and Recommender Systems is organized by Yue Xu, Yuefeng Li and Raymond Y.K. Lau. Web users are very often overwhelmed by huge amount of information and are faced with a big challenge to find the most relevant information and at the right time. In recent years, interest in recommender systems has dramatically increased, driven by demand for Internet personalization applications. With today's increasing information overload problem on the Web, the area of recommender systems research becomes more challenging than ever before. The aim of the
workshop is to bring together academic and industrial researchers to exchange ideas and latest achievements in the field of Web personalization and recommender systems. The scope of the workshop covers applications, systems, technologies and theoretical aspects of personalization and recommendation making.

The International Workshop on Service Composition & SWS Challenge is organized by M. Brian Blake, Charles Petrie and Dumitru Roman. Composition of services in dynamic environments has received much interest for its potential to support Business-to-Business (B2B) or Enterprise Application Integration (EAI). One such dynamic environment is the World Wide Web, which makes available a huge and rapidly growing number of heterogeneous services. Recent efforts to develop ontology languages for the Web and ways of describing web services semantically in this environment have resulted in a number of prototype systems that can dynamically combine services and interact with them. In this context, this workshop aims to tackle the research problems around methods, concepts, models, languages and technology that enable composition of services in the context of the WWW. The particular interest is the methodologies that enable automatic or semiautomatic composition of services, semantic web service, web services, and e-services. This workshop is composed of two initiatives: the third edition of the Workshop on Service Composition and the fifth edition of the Semantic Web Services Challenge.

The International Workshop on Biomedicine Applications of Web technologies is organized by Chun-Nan Hsu, Vincent Shin-Mu Tseng and Wen-Hsiang Lu. This workshop has been organized to bring together researchers and practitioners to foster the exchange and dissemination of emerging intelligent Web technologies for increasing needs in bio-medicine applications. The program also includes a keynote speech by Dr. Katy Wolstencroft from the University of Manchester, United Kingdom. Dr. Wolstencroft has been playing an important role in the MyGrid project, an excellent example of how advanced Web technologies can be applied to facilitate research in biology.

The International Workshop on Intelligent Web Interaction is organized by Seiji Yamada, Tsuyoshi Murata, Erich Ortner, Joachim Sternhuber and Vaclav Snasel. Web Interaction has been realized through related technologies including interactive information retrieval, intelligent systems, personalization, user interfaces and so on. Web Interaction includes interactions not only between a human and Web systems, but also between humans through Web systems by means of physical actions, communications, speech, or conversations. However, each study and development has been done independently in different fields, which might discourage researchers from studying Web Interaction from the unified view of human-system interaction and making Web Interaction more intelligent by applying machine learning and soft computing. Hence, the Intelligent Web Interaction workshop aims to gather a variety of researchers in diverse fields like Web systems, AI, computational intelligence, human-computer interaction and user interfaces.

The International Workshop on Social Media Analysis is organized by Chun-hung Li, William K. Cheung and Guoping Qiu. This workshop focuses on original research work addressing fundamental issues in social media. Social media like web logs, online forums, photo and video sharing services have revolutionized our ways of sharing information and interacting with each other. People can now easily upload, tag, share and find data, text and multimedia via different social media applications in order to form online communities. Companies can now collect different types of business intelligence non-intrusively from the blogosphere for setting up their own strategies in a more dynamic fashion. The blossoming of social media, which is growing rapidly, has opened up a lot of new opportunities in the market and also creates new information and knowledge management challenges as the media continues to grow.

The International Workshop on Web Security, Integrity, Privacy and Trust is organized by Yiu-ming Cheung, Michael Chau, Yong Zhang, Mehmed Kantardzic, Darren King and Li Ge. The Web has become the platform for a lot of functions such as e-commerce, banking, emails, blogs, and business applications. Many of these functions, while bringing convenience to users, require the storage of personal data or confidential data. It is therefore important to ensure security, integrity, privacy, and trust on the Web so that we can use these applications safely. With the growth of Web 2.0, it is timely and important to investigate these areas. This workshop aims to bring together papers that report on state-of-the-art
research and applications in Web security, integrity, privacy and trust and provides an opportunity for researchers and practitioners in the area to present and share their latest findings.

The International Workshop on Communication between Human and Artificial Agents (CHAA-07) is organized by Christel Kemke (Chair), Jamal Bentahar, Nicolas Sabouret and Stephen Helmreich. The goal of the workshop is to bring together researchers working on the conception, design and implementation of models and techniques for human-agent communication. After a very successful CHAA-06 workshop in Hong Kong in 2006, CHAA-07 is planned again as a full day meeting. This year over 20 submissions were received, which were of such a high quality that around 60% could be accepted. The contributions selected for presentation at CHAA-07 range from solid theoretical work to amazing applications in human-agent interfaces. We hope that this workshop will foster the improvement of artificial agents and their communicative abilities, and finally helps to bridge the gap between the richness, complexity and expressiveness of human communication and the currently limited but expanding capabilities of their artificial counterparts.

The International Workshop on Rational, Robust, and Secure Negotiations in Multi-Agent Systems is organized by Takayuki Ito, Hiromitsu Hattori, Minjie Zhang, Naoki Fukuta, Valentin Robu and Hirofumi Yamaki. Negotiations have been studied widely in the field of multi-agent systems. They possess a variety of features that enable agents to negotiate with each other. Recent studies have tended to focus on completely open and highly uncertain environments. However, mainly due to limited computational power, there were several assumptions that traditionally limit the degree of openness. Nowadays, we can employ machines with large computational power to compute an optimal way for agents to negotiate under open and uncertain environments. For the practical use of multi-agent systems, agents must obtain appropriate solutions based on rational, robust, and secure negotiation among multiple agents under such intractable environments. We solicit papers on all aspects of such negotiations in multi-agent systems.

The International Workshop on P2P Computing and Autonomous Agents is organized by Tarek Helmy and Khaled Ragab. Autonomous agents and Peer-to-Peer (P2P) computing are currently attracting enormous media attention world wide. In P2P systems a very large number of autonomous computing nodes (the peers) pool together their resources and rely on each other for data and services. The main aim of the P2P Computing and Autonomous Agents workshop is to address the needs for autonomous agents that support self-organization of highly autonomous peers, load balance, routing. The workshop includes papers representing significant research contributions to the field of P2P and Autonomous agents on topics such as autonomous agents and query languages for P2P systems, data placement and query answering in P2P systems, services in P2P systems and P2P Data Mining Agents, and coordination, robustness and adaptability in P2P systems.

The Second International Workshop on Multiagent Systems in E-Business: Concepts, Technologies and Applications is organized by Costin Badica, Maria Ganzha and Marcin Paprzycki. This workshop is a continuation of the earlier successful MASeB’06 workshop that was held in Hong Kong, China, during WI/IAT 2006 conferences. The workshop aims at bringing together researchers and practitioners interested in topics of (multi-)agent systems connected to relevant areas of modern e-business. This year the workshop features 10 papers that have as common ingredient the application of intelligent software agents to e-business problems related to recommendation, virtual organizations and marketplaces, coordination in information filtering, biometric authorization in m-commerce, pricing mechanisms, and adaptive provision of resources and services.

The International Workshop on Agents & Data Mining Interaction (ADMI'07) is organized by Pericles A. Mitkas, Longbing Cao and Vladimir Gorodetsky. Software agents and data mining comprise two of the most vigorous areas in information technology. The increasing interaction between these two areas and the emergence of sophisticated approaches for seamless integration can lead to a successful symbiosis. This workshop, together with its sister workshop on Autonomous Intelligent Systems - Agents and Data Mining (AIS-ADM), provide premier forums for sharing research and engineering results, as well as potential challenges and prospects encountered in the coupling between agents and data mining. The first ADMI workshop was successfully organized at WI-IAT 2006. We expect that this year's edition, with
its two invited talks and 14 carefully selected papers, will continue to stimulate the discussion on how to exploit agent-enriched data mining as well as how to improve data mining-driven agents.

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