

PHAROS teaching staff

Alessandro Bozzon holds a PhD in computer science, and he is currently a research assistant at Politecnico di Milano. He collaborates to several research projects related to innovative Web technologies (e.g., Web services, service orchestration, Rich Internet Applications, Mash-up, etc.), Web architectures for embedded systems, information retrieval and innovative search engine platforms.

Marco Brambilla is assistant professor at Politecnico di Milano since February 2004. He graduated cum laude in 2001 and got his Ph.D. in Information Engineering at Politecnico di Milano in 2005. He collaborated in several industrial projects with Acer Europe, Cisco System (San José, CA), and WebRatio, and others. He has a wide teaching experience in Databases, Computer Science and Web Engineering. In 2004, he was visiting researcher at UCSD (University of California, San Diego) with proff. Papakonstantinou and Vianu. His research interests include Web modeling methodologies, Web design patterns, conceptual design of data-intensive Web applications, workflow-based Web applications, service oriented applications, Semantic Web application modeling, MDD/MDA, Web architectures for embedded and HMI systems, simplified interfaces for disabled people, Formal verification of properties of Internet application through linear-time temporal logic, study of new models and interfaces for deploying MVC Web applications, MDA modeling of workflow constraints and transformations between models, Study of advanced interfaces for rich internet applications. He participated in several European and national research projects. The main ones are: Pharos EU Project: framework of federated search engines for audiovisual content; Cooper EU Project: architecture and a methodology for collaborative Web applications; ESA MyHMI Project: software architectures based on Internet technologies for embedded devices for industrial and home automation; WebSI EU Project: architecture and modeling language for the integration of Web applications through orchestration of Web services, specified through business process models; MetalC Project: Internet platform for exchanging digital information within and between SME enterprises by allowing the integration of with customers and suppliers; Project EU Esprit W3I3: visual modeling language for the specification and design of dynamic Web applications (WebML).

Sergey Chernov works at L3S Research Center in Hannover, Germany since 2005 and pursues towards PhD in computer science. He graduated from Volgograd State Technical University, Russia in 2003 and received Master degree from Max Planck Institute for Computer Science, Germany in 2005. He participated in several EU-funded projects related to different aspects of search, like Nepomuk (social semantic desktop), Eleonet (search portal for learning objects) and Pharos (audio-visual search platform) projects. In 2008 he spent 3 months at IBM Haifa Research Lab as a research intern. His PhD research topic Activity-Based Desktop Search was presented at SIGIR 2008 Doctoral Consortium. Other research interests include Personalized Search, Expert Search, Distributed Information Retrieval, Peer-to-peer based Web search and Digital Libraries. More information and publication record can be found at <http://www.l3s.de/~chernov>.

Vincenzo Croce is Engineer in Computer Science. He got his University Degree in November 2000 from Palermo University. Since February 2001, he works as a researcher in Engineering's Research and Development laboratory. He was involved with technical responsibilities in the BANKSEC

project (SECure BANKing application assembly using a component based approach) EU V Framework Program and responsible of P2P ARCHITECT (Ensuring dependability of P2P applications at architectural level), an EU FP5 project. He was involved in project PEPERS -FP6 R&D IST Strep - (Mobile Peer-to-Peer Security Infrastructure) as technical director. He is currently delivery manager of the PHAROS -FP6 IST Integrated Project. During his professional life, he has also authored scientific publications presented at international conferences.

Marilena Lazzaro: She got his University Degree in Computer Science in 2004 at the University of Palermo. She is getting Masters of Science in Computer Engineering from Torino Politecnico. Since 2007, she works as a researcher in Engineering's Research and Development laboratory. She is involved with technical role in the laboratory. In the PHAROS project she is contributing in Persistence layer realization. Moreover she is directly managing Pharos Platform integration, testing and packaging. She 's part of the team managing for PHAROS Platform delivery.

Peter Dunker received his German Diplom in media technology at the Technical University of Ilmenau in 2003. Since 2004, he is working at the Fraunhofer Institute for Digital Media Technology IDMT as research and development engineer. Peter Dunker collaborated in several research projects in the field of content-based photo collection management and cross-modal video fingerprinting. His research interests are: image and video processing, cross-modal multimedia retrieval and indexing. Since 2009 he is Head of the Semantic Audio-Visual Systems Group at the Fraunhofer IDMT.

Enric Guaus is assistant professor in Audio and Music Processing at Universitat Pompeu Fabra and lecturer in Acoustics, Computer Science and Electronics at Escola Superior de Música de Catalunya. He received a Master in Computer Science and Digital Communication in 2004 from Universitat Pompeu Fabra and submitted his PhD dissertation in June 2009 at the same university. His main research interests concern music information retrieval and human-musical instrument interaction. He is electronics engineer by the Universitat Ramon Llull and received music education at the Taller de Músics, in Barcelona.

Kathrine Hammervold works as a Program Manager at FAST, A Microsoft Subsidiary. She has 9 years experience working in language technology for companies in Norway, Scotland and Belgium. She has an MSc in Computation Linguistics from the University of Bergen, Norway and has worked on text-to-speech, entity extraction and multimedia search.

At Microsoft, she works on the next generation platform for content analytics and search. She has been involved in PHAROS from the very beginning, starting out as technical lead and she is now Technology Director.

Dr Suzanne Little is a postdoctoral fellow at the Knowledge Media Institute of The Open University, UK working principally on the PHAROS project in the areas of image analysis, multimedia annotation and content-based search. She completed her PhD at the University of Queensland, Australia in 2006 examining and developing tools for analysing and managing scientific multimedia data. After finishing her thesis, Suzanne held an 18 month postdoctoral fellowship within the EU European Network of Excellence, MUSCLE, examining hybrid approaches to signal analysis and image annotation, dividing her time between ISTI-CNR in Pisa, Italy and IBal in Leipzig, Germany. Her research interests include

the definition and discovery of multimedia semantics, image annotation, eScience applications, human-computer interactions and semantic web applications.

Avaré Stewart is a PhD student in the L3S Research Centre. She holds a Masters in Computer Science. Before she joined L3S, she worked at Fraunhofer IPSI, Darmstadt, an applied research institute leading the personalization and semantic services work package in the EU-funded project, VIKEF. Her main research interests are text mining and information extraction. The specific areas she has been working on includes social network and blog analysis, and event detection.

External speakers

Thursday 25th

Stefano Ceri Stefano Ceri is full professor of Database Systems at the Dipartimento di Elettronica e Informazione, Politecnico di Milano; he has been visiting professor at the Computer Science Department of Stanford University between 1983 and 1990. He is chairman of LaureaOnline, a fully online curriculum in Computer Engineering. He is member of the Executive board of Alta Scuola Politecnica. His research interests are focused on: extending database technology to incorporate data distribution, deductive and active rules, object orientation, and query languages for XML; and design methods for data-intensive WEB sites. He is responsible of several EU-Funded Projects at Politecnico di Milano, including W3I3: "Web-Based Intelligent Information Infrastructures" (1998-2000), WebSI: "Data Centric Web Services Integrator" (2002-2004), Cooper: "Cooperative Open Environment for Project Centered Learning" (2005-2007) and ProLearn "Network of Excellence in Professional Learning" (2005-2008).

He is co-inventor of WebML, a model for the conceptual design of Web applications (US Patent 6,591,271, July 2003) and co-founder of Web Models, a startup of Politecnico di Milano focused on WebML commercialization by means of the product WebRatio. In 2006 he has won an IBM Faculty Award and has led a joint team of scholars who won the WSMO Semantic Web Challenge. He was Associate Editor of ACM-Transactions on Database Systems and IEEE-Transactions on Software Engineering, and he is currently an associated editor of several international journals. He is co-editor in chief of the book series "Data Centric Systems and Applications" (Springer-Verlag). He is author of about 200 articles on International Journals and Conference Proceedings, and is co-author of nine international books, including "Designing Data-Intensive Web Applications" (Morgan Kaufmann, 2002).

Alexandros Nanopoulos Dr. Nanopoulos was born in Romania in 1974. Currently, he is assistant professor at the University of Hildesheim, Germany. He obtained his BSc and PhD from the Department of Informatics of Aristotle University of Thessaloniki, Greece, where he taught as Lecturer from 2004 to 2008 courses on Data Mining and Databases. From 2005 to 2008 Dr. Nanopoulos taught courses on Databases in the Hellenic Open University. His main research interests include Data Mining and Machine Learning with applications in Databases and Information Retrieval. Dr. Nanopoulos is the co-author of more than 70 articles in international journals and conference proceedings. Dr. Nanopoulos has also co-authored the monographs "Advanced Signature Indexing for Multimedia and Web Applications" and "R-trees: Theory and Applications", both published by Springer Verlag. He has also co-edited the volume "Wireless Information Highways", published by Idea Group Inc. In 2008 he has

served as a co-chair of the European Conference of Artificial Intelligence (ECAI) Workshop on Mining Social Data and in 2006 and 2007 as a co-chair of the Advances in Databases and Information Systems (ADBIS) Workshops on Data Mining and Knowledge Discovery. He has also served as program committee member of several international conferences on data mining and databases.

Pierangelo Migliorati received the degree in Electronic Engineering (cum laude) from Politecnico di Milano in 1988, and the Master in Information Technology from CEFRIEL-Politecnico di Milano Research Centre, Milan, in 1989, respectively. He joined CEFRIEL Research Center in 1990. From 1990 to 1993 he was active in the area of image processing and coding. He was also involved in research activities in the areas of multimedia communications and medical image processing. From 1993 to 1995 he considered the problems related to transmission and recording of digital signals. From 1995 to 2004 he was Assistant Professor at University of Brescia. From 2005 he has been Associate Professor at University of Brescia. His teaching activities focus mainly on Digital Signal Processing and Digital Communications. His main research interests cover the field of Digital Signal Processing applications, with a specific expertise on visual communications, and content-based analysis of audio-visual information. He has published more than 50 papers on these topics. He has been an active reviewer of several journal and conferences in this research field. He participated to several international research programmes in audio-visual communications, funded by the European Commission (ESPRIT project AVIR, IST project SPATION, IST project SCHEMA, IST project DISCOVER, IST project RUSHES, COST-292), the Italian National Center for Research (CNR), the Italian Ministry of Education and Research (MIUR).

Friday 26th

Francesco Nucci Francesco Saverio Nucci - Born in 1964, obtained university degree in Computer Science in March 1990 at the University of Rome "La Sapienza". After a grant for the Multimedia and Tutoring System at the Computer Science Dept of University of Rome he joined the Sespim Research Consortium in Naples working in the field of Human Computer Interface and Multimedia Systems Application. During that activity he followed a collaborative project with the Media Lab of the Massachusetts Institute of Technology, where he also attended summer schools and executive courses. In 1996 he was appointed Technical Co-ordinator for the SESM Consortium leading R&D projects acquisition and negotiation. During these working activities he acquired competencies in project management of research and technology based innovation. In 1999 he worked for a post-merger integration in an Alenia Marconi Systems, an Anglo-Italian Joint Ventures between Marconi and Finmeccanica. In 2000 he was appointed as responsible of the introduction of EVA (Economic Value Added) Financial methodology in the Company. In the April 2001 he joined the Engineering R&D Laboratory with responsibilities in Project management, business development and innovation. In 2005 he became Director for European Projects, acquiring and conducting several EC-funded research projects: he was Board Director of BRICKS Integrated Project and Member of DILIGENT Board. Actually he is Board Director of an important search engine Project (named PHAROS) and member of the Steering Board of NEM (Networked Electronic Media) European Technology Platform. He is author of many international papers in Digital Media, Technology Innovation and Multimedia Business. Since 2002 he is professor at the University of Rome "La Sapienza" in a Master of Business Management of Media.

Miki Haseyama

Miki Haseyama received the Ph. D. degree in Electronics Engineering from Hokkaido University, Japan in 1993. She is currently a professor at School of Information Science and Technology, Hokkaido University. Her current research interests cover image, video and audio analysis and its applications for next generation retrieval. She is a board member and chief technical adviser of the Information Grand Voyage Project by Ministry of Economy, Trade and Industry, Japan.

Julien Masanès is the Director of the European Archive, a non-profit foundation for web preservation and digital cultural access. Before this he directed the Web Archiving Project at the Bibliothèque Nationale de France since 2000. He also actively participated in the creation of the International Internet Preservation Consortium (IIPC), which he has coordinated during the first two years. Julien Masanès is a curator and received a degree in Librarianship at enssib (Lyon) in 1999. Julien Masanès is member of the board of the EU funded project Living Web Archives (LiWA). He has also launched and presently chairs the International Web Archiving Workshop (IWAW) series, the main international rendezvous in this domain. He has published several articles and contributions in this field and recently edited the first book on the topic (Web Archiving, Springer 2006).

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