

Stefano Bocconi

Personal Information

Nationality: Italian
Date of Birth: 12 October 1967
Place of Birth: Florence, Italy

Research experience

01/2002 - now
Research institute: Centrum voor Wiskunde en Informatica
Department: Multimedia and Human-Computer Interaction
Job Title: Project co-worker
The research in my group focuses on the automatic generation of Multimedia presentations. In general I am interested in semantic annotation of media items and in automatic generation of Multimedia presentations using annotated media items according to narrative and/or rhetoric criteria. At the moment my research is about how to automatically compose different video segments according to a communicative goal. I am working on a method to support the selection and automatic editing of user-requested content from video footage. This method is applied to the domain of video documentaries to create biased sequences about a user selected subject.

Publications

2004

Stefano Bocconi and Frank Nack. VOX POPULI: Automatic Generation of Biased Video Sequences. (CWI technical report INS-E0405), June 2004

2003

Floris Wiesman, Stefano Bocconi, Boban Arsenijevic, Yulia Bachvarova, Nico Roos, and Lambert Schomaker. Intelligent Information Retrieval and Presentation with Multimedia Databases. In: Proceeding of the Fourth Dutch-Belgian Information Retrieval Workshop (pages 52-56), Institute for Logic, Language and Computation, University of Amsterdam, Amsterdam, Netherlands, December, 8-9, 2003.
Joost Geurts, Stefano Bocconi, Jacco van Ossenbruggen, and Lynda Hardman. Towards Ontology-driven Discourse: From Semantic Graphs to Multimedia Presentations. In: Second International Semantic Web Conference (ISWC2003) (pages 597-612), October 20-23, 2003, Sanibel Island, Florida, USA
Stefano Bocconi. Automatic Presentation Generation for Scholarly Hypermedia. 1st International Workshop on Scholarly Hypertext at the fourteenth conference on Hypertext and Hypermedia (HyperText 2003). August 30, 2003.

Work experience

11/1998 - 11/2001
Company: Lucent Technologies.
Job Title: Software Engineer
Involved in designing, developing and testing ISDN software for the 5ESS (Lucent telephone switch product) according to the ISO 9001 standard and CMM level 3. This software is required to run on a real-time system and have an uptime of 99.9999%; it is written in C.
Some of the projects:
Platform Independent Q931: software realization of an ISDN layer 3 protocol stack which can run on different platforms (Sun SPARC, NT, etc.).
Implementation of the Transit Network Selection Information Element in the 5ESS. This is an ISDN information element, which allows the user to select the Carrier for his/her call.
Also working in the ISDN Customer Care team. Mainly involved in investigating software-related customer queries and checking the 5ESS code against compliance to telecommunication standards.

10/1996 - 10/1998 Leiden
Company: Wang Global (now Getronics).
Job Title: Software Developer
Some of the projects I was involved in:
PTT Kiosks: PC-equipped stations connected via a dial-up TCP-IP over ISDN connection to a network of servers. The servers provided the content that the stations could browse. The user could purchase tickets for concerts and flights, rent cars, etc. C, CGI shell scripts, Unix and Cisco routers were used.
Design and implementation of a script language and a script compiler (written in C) to generate test programs. The scope of the generated programs was to test compliance of ported code to the original code.

01/1996 - 09/1996 Florence, Italy
Company: PowerSoft srl
Job Title: SoftwareDeveloper (freelancer)

Developer of computer-based Voice Answering Machine for Call Centers, airports, hotels, etc in C++ on the OS/2 and Win95 platforms.

07/1995 - 12/1995 Florence, Italy
Company: Quasar srl
Job Title: Software Developer
Developer of graphical user interfaces in C for online stock trading software on Unix and NT, using a third-party Software Development Kit.

05/1995 - 06/1995 Florence, Italy
Company: European University, Department of Social Sciences.
Job Title: Software Developer (freelancer)
Developer of software in C++ to calculate the Shapley's index, an index that measures a political party influence based on his capability to form coalitions that yield the majority and govern a country.

Education

1987 - 1994 Florence, Italy
Institute: Faculty of Electrical Engineering
Diploma: Engineer (equivalent to ir. in the Netherlands)
Specialization: Control Theory, Automation
Thesis title: "Retraining of Neural Networks". Neural Networks are used in controlling non-linear systems, after they are "trained", i.e. set in such a way as to simulate the system to be controlled. This happens before the control action begins (off-line). If the system to be controlled varies after a while (time-varying systems), the neural network must be "retrained" without stopping the control action, i.e. on-line. The goal of the thesis was to investigate possible methods to achieve this.
Final grade: 110/110 cum laude.

Other Educational Experience

06/2001 Utrecht
Institute: Computrain.
Program: C++ course.
01/2001 Hilversum
Institute: The Phillips Group. **Program:** UMTS Technical Overview course.
06/2000 Hilversum
Institute: Bell Labs. **Program:** Software Systems Architecture course.
05/2000 Hilversum
Institute: The Phillips Group. **Program:** TCP/IP Internetworking course.
04/2000 Hilversum
Institute: Van Der Kooij & Partners. **Program:** Personal Efficiency course
03/2000 Hilversum
Institute: The Phillips Group. **Program:** Voice Over IP course.
06/1999 Hilversum
Institute: Bell Labs. **Program:** Introduction to OO Analysis and Design course.

Technical Skills

Computer languages & scripts : C, C++, Java, XSP, XSLT, Prolog. I also worked with Pascal, assembler, Fortran, Simulab. Experience with Unix shell scripts, CGI, (n)awk.
Protocols: TCP/IP (some experience as Router Administrator), ISDN, LAPD, X.25, ASN.1
Operating Systems: Windows 95/98, NT, Unix (some experience as System Administrator), Linux RedHat.
Standards and Processes: Experience working in a Capability Maturity Model 3 (Defined) and ISO9001 environment.

Achievements

Three telecommunication patents submitted to the European Patent Office:
-GSM auto switch off/on.
-GSM free communication.
-Personal and business use of (mobile) telephones.

Languages

Italian (mother tongue), English, Dutch, Spanish.