DIEGO R. TAMBURINI

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INTERESTS

Integration of computer-aided design and analysis tools to support concurrent engineering. Development of engineering information management techniques to integrate multidisciplinary design data. Implementation of solutions for exchanging product design information between engineering organizations.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA
Ph.D. Mechanical Engineering, June 1998
GPA: 3.8/4.0
Currently conducting research in the area of Engineering Data Management at the Engineering Information Systems Laboratory at Georgia Tech. Investigating engineering information exchange standards (such as PDES/STEP), object-oriented product modeling methodologies, and information modeling and representation methods to support integration of disparate computer design/analysis tools and multidisciplinary information within a single standard environment.

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA
M.S. Mechanical Engineering, December 1989
GPA: 3.7/4.0
Completed a multidisciplinary program in Computer Integrated Manufacturing Systems (CIMS).

INSTITUTO UNIVERSITARIO POLITECNICO DE LAS FUERZAS ARMADAS NACIONALES, Caracas, Venezuela
B.S. Mechanical Engineering, December 1987
Ranked second in the school with a GPA of 8.06/9.00. Mathematics Teaching Assistant in the School of Engineering for 2 years. Received basic military instruction.
Thesis: “Design of a Laboratory Testing Cell for Cubic Rock Specimens” for the Venezuelan Institute of Oil Technology.

WORK EXPERIENCE

GEORGIA INSTITUTE OF TECHNOLOGY - ENGINEERING INFORMATION SYSTEMS LABORATORY, Atlanta, GA
Graduate Research Assistant (May 1995 – Present)
Participated in the TIGER (Team Integrated Electronic Response) Project; a DARPA-sponsored program whose members were Georgia Tech, The Atlanta Electronic Commerce Resource Center, Boeing, South Carolina Research Authority, International TechneGroup Incorporated, Arthur D. Little and Holaday Circuits. The objective of this project was to demonstrate a collaborative design/analysis/manufacturing scenario between geographically dispersed engineering groups. My responsibility in this project was to investigate and implement the underlying information modeling and exchange mechanisms to make this collaboration possible.
Currently participating in the Product Simulation Integration (PSI) for Structures Project with Boeing Commercial Airplane Group. The objective of this project is to integrate structural analysis with product definition to reduce airplane development and support costs, and cycle time. My responsibility in this project is to develop an object-oriented product modeling approach to facilitate integration between their product definition tools and strength check analysis tools.

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WORK EXPERIENCE

STEP TOOLS, INC., Troy, NY
Doctoral Summer Intern (June 1995 - September 1995)
Designed and implemented an Internet service to provide remote translation of CAD files between different formats. Developed application programs based on the ISO 10303 (STEP) international standard for the exchange of product model data.

LAGOVEN S.A. - PETROLEOS DE VENEZUELA, Maracaibo, Venezuela
CAD/CAE Project Engineer (January 1990 - December 1992)

- Participated as the technical advisor in the creation of the Design Department's CAD/CAE Group. Helped justifying, selecting, purchasing, installing and running the CAD/CAE system for this group and designed its organizational structure. The CAD/CAE Group provides support to the engineers of the Design Department in the design of piping facilities for oil production.
- Designed and delivered a training program for approximately forty employees to teach them how to use the general-purpose CAD, plant modeling, and parametric design applications we had purchased..
- Developed productivity tools (parametric models for routine designs, symbol libraries, macro programs) and implemented new concurrent design procedures that brought substantial savings in drawing times and improvement of design quality (a parametric model developed for water injection wells reduced the design time from 24 to 4 man-hours, general production of engineering drawings doubled in about 6 months).
- Conducted CAD/CAE/CAM seminars for engineering students at several universities.
- Presented Lagoven's CAD/CAE system at the Venezuelan Mechanical Engineering Congress.
- Provided mentoring to four undergraduate students working on their thesis projects with the company.

COMPAÑIA ANONIMA VENEZOLANA DE INDUSTRIAS MILITARES, Maracay, Venezuela
Assistant Engineer (January 1988 - August 1988)
Programmed and operated MAZAK numerical controlled machining centers and lathes.

COMPUTER SKILLS

CAD systems: Accugraph's Mountain Top, Generic CADD, Autocad, Cadmatic's 3-D Plant Modeler. Databases: ROSE, ORACLE, Microsoft ACCESS, Dbase IV. Programming languages: C, C++, Java, Basic, FORTRAN, Smalltalk, HTML, CLIPS. Operating Systems: UNIX, DOS. Mathematical packages: MathCad.

LANGUAGE SKILLS

Fluent in English, Spanish, Italian, and Portuguese.

ADDITIONAL INFORMATION

Founder member of the Petróleos de Venezuela CAD/CAE Committee.
Venezuelan Council for Scientific Research Fellow. ASME Student Member.