



**MANUFACTURING AND MANAGEMENT
FOR GLOBAL PROSPERITY**

GCMM'2006

Global Congress on Manufacturing and Management

Manufacturing and Management for Global Prosperity

November 19 - 22, 2006 – Santos, Brazil.

ORGANIZATION



**Council of Researches
in Education and Sciences**

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GCMM 2006 –Global Congress on Manufacturing and Management – (2006: Santos)

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Prof. Dr. Claudio da Rocha Brito

Message from the General Chair

Along the History it can be seen the human achievements in altering and dominating nature in favor of better ways of surviving. This is how technology was born and prevails improving and now in much sophisticated levels. Men can now more than ever reach levels of comfort, healing of diseases increasing age level expectations, moving around the world, watching the news and communicate in real time. All this thanks to the development of sciences and technology. Engineering all over the world is in many ways shaping a new life style, helping to save lives, making transportation faster and more secure, enhancing communications and etc. This isolated aspect – the development of sciences and technology, helped to make the globalization phenomenon a reality once more in human history. Despite the negative aspects of globalization all the scientific and technological advancements have one main goal: make men's life better. That is why machines were designed - to do the hard work so that men can have more time for other more pleasant work; the search for new drugs to defeat diseases, to live better and more and so on.

Global Congress on Manufacturing and Management has emerged in new times when innovative initiatives like the organization of such events are welcome and make the difference in the promotion of sciences and technology in this





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mutant world. GCMM comes to add efforts to the widespread dissemination of innovations that improve manufacturing, management, engineering, and technology. It is a major bi-annual international conference devoted to improvements in those areas that counts with the presence of researchers and enterprises of many parts of the globe. It is a forum for sharing ideas, learning about new developments and interacting with other colleagues. We are glad with the quality of articles that were appraised by the international examining committee, all about recent issues, rising up interesting discussions as well as seeking and suggesting innovative solutions on Manufacturing and Management.

This edition of Global Congress on Manufacturing and Management - GCMM'2006 is being organized by COPEC – Council of Researches in Education and Sciences, a council that was established to enhance and to maintain relations between academics, institutions, enterprises and the society of the several countries for the discussion of education, technology and sciences directions. GCMM'2006 has been built around the theme of "Manufacturing and Management for Global Prosperity" and has counted with the contribution of many authors from many parts of the five continents that certainly makes this a great success. The chosen place to accomplish the Congress is Santos one of the most beautiful cities of São Paulo Seashore which is in the Atlantic Forest, a natural reserve in Brazil, a legacy for next generations to come.

This year we are glad to commemorate a great achievement for engineering education in Brazil that is the International Society for Engineering Education - IGIP National Monitoring Committee - Brazil. It was founded on April 17 2005 and it has been busy seventeen months of activities. We believe that it will certainly be another opportunity for dedicated Brazilian teachers to improve the natural vocation to teach. IGIP was founded in 1972 and since then it has been working hard to accomplish its mission to foster the engineering teaching. Always updating it has defined recently new stan-





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dards for engineering educators' registration, a step forward in the formation of new educator to a new world. The accomplishment of such task is a challenge and at the same time a pleasure for those who believe that education is the key for the development of a new kind of educator more aware of what is coming up in work market of this new global world.

The GCMM'2006 has the Technical Cooperation (in alphabetical order): AAMP (Fishing Museum Friends Society), ABENGE (Brazilian Society for Engineering Education), ASEE (American Society for Engineering Education), ASIBEI (Iberian-American Association of Engineering Education Institutions), IEEE-Ed.Soc. (Education Society of the Institute of Electrical and Electronics Engineers), IGIP (Internationale Gesellschaft für Ingenieurpädagogik), INTERTECH (International Council for Engineering and Technology Education), NBPAS (Brazilian Nucleus of Environmental Researches and Health), Porto Gente (Sea Port and People), RBE (Brazilian Network of Engineering) and SEFI (Société Européenne pour la Formation des Ingénieurs) and Cultural Cooperation of Department of Culture of Santos, Archives and Memory Foundation and Santos & Region Convention & Visitors Bureau.

We can not forget to mention and thank in special our partners and sponsors the FAPESP (State of São Paulo Research Foundation), CNPq (National Council for Scientific and Technological Development) and CAPES (Coordination for Improvement of Personnel of Superior Level).

Many colleagues from many countries have given their support to GCMM'2006 and fortunately the list is vast and so it could not be comprised in a small space so our special thanks to all of them.





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We would like to express our gratitude to City Councilor Eng. José Antonio Marques Almeida, Prof. Khalil S. Taraman, who had the idea and who diligently, founded the GCMM, Prof. Prasad Yarlagadda, President of Board of GCMM. We can not forget to mention the political and academic communities of Santos that is always present in the events.

Our very special thanks to Prof. Maria Helena Lambert, Rector of Catholic University of Santos (UniSantos), who supports every activity for the enhancement of Education in the City. We would like also to thank and congratulate the Local Program Committee, which efforts made this event possible and thank Mr. José Luis Blanco Lorenzo of Central de Fretes Travel Agency for his dedication.

Finally my special thanks to the participants whose collaborations have enriched the event.

On behalf of the organizing committee and mine thank you very much.

Prof. Dr. Claudio da Rocha Brito
GENERAL CHAIR





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Prof. Dr. Melany M. Ciampi

Message from the Technical Program Chair

Manufacturing and Management are without any doubt of high importance for the advancement of our present society once both fields are connected by the dynamic of the application of tools and processes to the transformation of raw materials into finished goods. They are the essence of the producing sector that provides work and makes the economy wealth as well as enhance the service sector providing labor and development of a Country.

Having the importance of such fields for the advancement of sciences and technology it has been equally a challenge and a pleasure to be President of the Technical Program Committee of Global Congress on Manufacturing and Management - GCMM'2006, which provides us a forum for the presentation and discussions of researches, projects and possibilities in Manufacturing and Management fields' worldwide.

The articles brings the best and recent discussions not only focusing the present achievements in these fields but also the formation of next generation of professionals of engineers and business administration who will act in this new challenging business market of 21st. Century.



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In this edition we could count with the contributions of authors from many Countries of the five continents not only with good works but also reviewing papers, chairing the sessions and organizing workshops, sessions and panels.

The Book of Abstracts and the Proceedings constitute one contribution to manufacturing and management research to reach the aim of promoting the technological and scientific community.

Very special thanks to all the researchers, authors and participants as well as to all the supporters which efforts have enhanced the success of the Congress. We have also to mention the great job of local committee, the secretariat group, the designers and the University working group. The accomplishment and the success of a Congress is the sum of all these people's efforts.

On behalf of the Technical Program Committee I thank you all,

Prof. Dr. Melany M. Ciampi
TECHNICAL PROGRAM CHAIR





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HEAD INJURY CRITERION (HIC) MODEL AS A FUNCTION OF OPERATIONAL TESTING AND TRIM MANUFACTURING VARIABLES

IMPACTOS DA DEMANDA NA INTEGRAÇÃO E GERENCIAMENTO DO SISTEMA LOGÍSTICO

IMPLEMENTAÇÃO DE UMA PLANTA DIDÁTICA PARA PROCESSOS INDUSTRIAIS AUTOMATIZADOS

IMPROVING A CUTTING PROCESS OPTIMIZATION EXPERT SYSTEM

INTERFACING INFORMATION SYSTEMS AND NEW PRODUCT DEVELOPMENT THEORY

INTERIOR TRIM MANUFACTURING AND OPERATIONAL TESTS UTILIZING DESIGN OF EXPERIMENTS

LA DEBACLE ÉTICA DEL NEOLIBERALISMO GLOBALIZADO

LA FORMACIÓN DEL INGENIERO Y LA EDUCACIÓN TECNOLÓGICA

LA POLÉMICA SOBRE LA TEORÍA DE LA ADMINISTRACIÓN: MORGAN VERSUS PAVESI

LA SUPERVENIENCIA COMO CONCEPTO CLAVE EN LA CONSTRUCCIÓN DE ESTRATEGIAS DE NEGOCIO

LEANING AND RECOGNITION ALGORITHM OF INTELLIGENT AGV SYSTEM

MEDIDAS DE ACOMPANHAMENTO E CONTROLE APLICADAS AO DESENVOLVIMENTO DE SOFTWARE





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METODOLOGIA DO PROJETO NA ÁREA DE GESTÃO E APLICAÇÕES GRÁFICAS
MÉTODOS PARA LA SINCRONIZACIÓN LOCAL Y GLOBAL DE SISTEMAS PRODUCTIVOS
MINERAÇÃO DE DADOS GERANDO ÁRVORES DE DECISÃO PARA A CONSTRUÇÃO DO
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BLUE

MODELO BASEADO EM DIAGRAMA DE COMPONENTES DE UM SISTEMA DIGITAL DE
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MODELO BASEADO EM DIAGRAMA DE SEQUÊNCIAS DE UM SISTEMA DIGITAL DE
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MODELO BASEADO EM DIAGRAMA DE SEQUÊNCIAS DE UM SISTEMA DIGITAL DE
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O PAPEL DO EXECUTIVO PRINCIPAL NA APRENDIZAGEM ORGANIZACIONAL

O PROCESSO DE ADAPTAÇÃO ESTRATÉGICA DE UMA ORGANIZAÇÃO DE ENSINO TEC-
NOLÓGICO PRIVADA

O USO DE SISTEMAS INTEGRADOS DE GESTÃO EM PEQUENA EMPRESA

ORIENTAÇÃO ROBÓTICA POR IMAGEM

PEELING PUMPKIN USING ROTARY CUTTER





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VANTAGENS COMPETITIVAS DA EXPORTAÇÃO POR CONTÊNERES EM COMMODITIES
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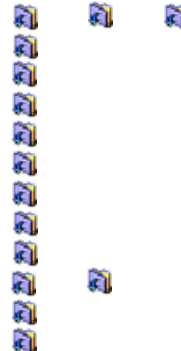
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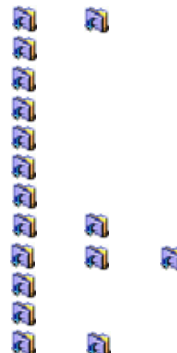
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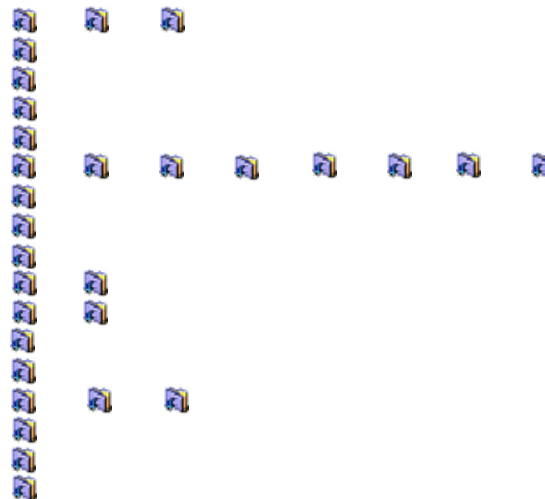
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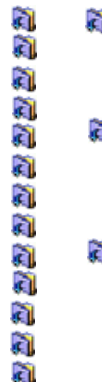
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