

INFO COMP

Journal of Computer Science

Ministério da Educação

Ministro: Fernando Haddad

Reitor: Antônio Nazareno Guimarães Mendes

Vice-Reitor: Elias Tadeu Fialho

Pró-Reitora de Pesquisa: Édila Vilela de Resende Von Pinho

Editora UFLA

Diretoria Executiva: Marco Antônio Rezende Alvarenga (Diretor)

Nilton Nagib J. Chalfun

Francisval de Melo Carvalho

VOLUME 7 – N.1 – 2008

Editorial Board

Editor-in-Chief

Heitor Augustus Xavier Costa, UFLA, Brazil

Executive Editor

Luiz Henrique Andrade Correia, UFLA, Brazil

Scientific Editors

Cláudia Linhares Sales, UFC, Brazil

Horácio Hideki Yanasse, INPE, Brazil

João M. R. da S. Tavares, FEUP, Portugal

Luiz Valter Brand Gomes, UFF, Brazil

Maria Luiza D'Almeida Sanches, UFF, Brazil

Muthu Ramachandran, Leeds Metr. Univ., UK

Nei Yoshihiro Soma, ITA, Brazil

Rudini Menezes Sampaio, UFLA, Brazil

Associate Editors

Adelmo Cechin, UNISINOS, Brazil

Adolfo Gustavo Serra Seca Neto, CEFET, Brazil

Adriana Giret, UPV, Spain

Alessandra Macedo, USP, Brazil

Alessandro Marchetto, Milan University, Italy

Alexandre Plastino, UFF, Brazil

Alvaro Rocha, GIMED, Portugal

Anderson de Rezende Rocha, UNICAMP, Brazil

André Luiz Zambalde, UFLA, Brazil

Anita Fernandes, Univali, Brazil

Anselmo A. Montenegro, UFF, Brazil

Anselmo Paiva, UFMA, Brazil

Antonio Maria Pereira de Resende, UFLA, Brazil

Antonio Pedro Timoszczuk, EPUSP, Brazil

Antonio Valerio Netto, CADT, Brazil

Arnaldo de Albuquerque, UFMG, Brazil

Ash Mohammad Abbas, Aligarh Muslim University, India

Bruno de Oliveira Schneider, UFLA, Brazil

Carlos de Castro Goulart, UFV, Brazil

Carlos Eduardo Portela Serra de Castro, UFMA, Brazil

Carlos Luiz Nunes dos Santos, UFRJ, Brazil

Claudio Fabiano Motta Toledo, UFLA, Br

Claudio R. Jung, UNISINOS, Brazil

Daniel Mesquita, INESC-ID, Portugal

Eder Mateus Nunes Gonçalves, FURG, Brazil

Elijah Blessing Rajsingh, Karunya University, India

Elisa Huzita, UEM, Brazil

Fábio Fagundes Silveira, ITA, Brazil

Fábio Henrique Viduani Martinez, UFMS, Brazil

Fábio Levy Siqueira, EPUSP, Brazil

Fatima L. S. Nunes, UNIVEM, Brazil

Fernando Koch, Univ. Utrecht, Holland

Fernando Santos Osório, UNISINOS, Brazil

Fortunato Silva de Menezes, UFLA, Brazil

Francisco José da Silva e Silva, UFMA, Brazil

Ganesh D. Bhutkar, Vishwakarma Inst. of Tech., India

Giani Carla Ito, INPE, Brazil

Giovani Rubert Librelotto, UNIFRA, Brazil

Heitor Augustus Xavier Costa, UFLA, Brazil

Hernan Astudillo, UTFSM, Chile

Hyggo Almeida, UFCG, Brazil

Ildeberto Aparecido Rodello, UNIVEM, Brazil

Isabel Leite Cafezeiro, UFF, Brazil

Jacques D. Brancher, URI, Brazil

Janne Yukiko Yoshikawa Oeiras, UNICAMP, Brazil

João Carlos de Moraes Morselli Jr., PUC-Minas, Brazil

João M. R. S. Tavares, Universidade do Porto, Portugal

Johan M. Sharif, Swansea University, Great Britain

Jones Albuquerque, UFRPE, Brazil

Jorge Martinez-Gil, University of Extremadura, Spain

Jorge Rady Almeida Junior, EPUSP, Brazil

José Fernando Rodrigues Júnior, USP, Brazil

José Luís Braga, UFV, Brazil

José Luiz de Souza Pio, UFMA, Brazil

José Monserrat Neto, UFLA, Brazil

Kalinka R. L. J. C. Branco, UNIVEM, Brazil

Kelly Christine Correa Silva, ILTC, Brazil

Lucia Specia, USP, Brazil

Lucia Vilela Leite Filgueiras, EPUSP, Brazil

Luciana Martimiano, USP, Brazil

Luiz Camolesi Jr., UNIMEP, Brazil

Luiz Carlos Begosso, FEMANET, Brazil

Luiz Eduardo G. Martins, UNIMEP, Brazil

Luiz Henrique Andrade Correia, UFLA, Brazil

Luiz Ricardo Begosso, FEMANET, Brazil

Maluk Mohamed, M.A.M. College of Engineering, India

Marcio Nunes Miranda, UFAL, Brazil

Marco Aurelio Gerosa, PUC-Rio, Brazil

Marcos A. Cavenaghi, UNESP, Brazil

Marcos José Santana, USP, Brazil

Maria Clícia Stelling Castro, UERJ, Brazil

Maria Istela Cagnin, UNIVEM, Brazil

Marluce Rodrigues Pereira, UFLA, Brazil

Mauricio Kischinhevsky, UFF, Brazil

Michel S. Soares, UFMG, Brazil

Miguel A. Salido, UPV, Spain

Muthu Ramachandran, Leeds Metropolitan Univ., UK

Nandamudi Vijaykumar, INPE, Brazil

Nelkis de la Orden Medina, CADT, Brazil

Odemir Bruno, USP, Brazil

Om Parkash Gupta, Punjab Agricultural Univ., India

Paulo Eduardo Ambrósio, CUBM, Brazil

Plínio de Sá Leitão Júnior, UFLA, Brazil

Priti Sajja, Sardar Patel University, India

Ranjit Biswas, Inst. of Tech. & Management, India

Reghunadhan Rajesh, Bharathiar University, India

Regina Santana, USP, Brazil

Renato de F. B. Neto, Innolution Sist. de Inform, Brazil

Ricardo Custódio, UFSC, Brazil

Robson Augusto Siscoutto, UNIC, Brazil

Rodrigo O. Plotze, PUC-Rio, Brazil

Rodrigo Paes, USP, Brazil

Rogéria Cristiane Gratao Souza, UNESP, Brazil

Ronei Marcos Moraes, UFPA, Brazil

Rosângela Aparecida D. Penteado, UFSCar, Brazil

Rudini Menezes Sampaio, UFLA, Brazil

Sandro R. B. Oliveira, Univ. da Amazônia, Brazil

Sanjay Garg, A. D. Patel Institute of Technology, India

Seiji Isotani, Osaka University, Japan

Silvia Castro, Bertagnolli, Brazil

Syed F. Mustafá, Univ. of Chinese of Sciences, China

Udo Fritze Jr., PUC-Minas, Brazil

Valter F. Avelino, EPUSP, Brazil

Valter Vieira Camargo, UNIVEM, Brazil

Vicente Julian, Universidad Politéc. de Valencia, Spain

Vitus S.W. Lam, Univ. of Hong Kong, Hong Kong

Vladimir Oliveira Di Iorio, UFV, Brazil

Wilian Soares Lacerda, UFLA, Brazil

Yogendra Kumar Jain, Rajiv Gandhi Tech. Univ., India

Technical Staff

Ângela M. S. Gonçalves (Secretary)

Deivson H. R. de Almeida (Secretary)

INFOCOMP – Journal of Computer Science – v.7, n.1 (2008) – Lavras: Universidade Federal de Lavras, 2008.

Anual (1999 - 2003), Semestral (2004), Trimestral (2005 -)

Sumários em Inglês

ISSN 1807-4545

1. Ciência da Computação I. Universidade Federal de Lavras. II. Departamento de Ciência da Computação.

Indexed in:

CiteSeer

DEST

DOAJ

EBSCO

INSPEC

IS Journals

IS World

Solicita-se permuta/Exchange desired Tiragem/Quantity issued per print: 250