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Nota di contenuto	Workshop on Numerical Methods and Modeling/Simulations in Computational Science and Engineering (NMMS 2010) -- The Use of Shadow Regions in Multi Region FDM: High Precision Cylindrically Symmetric Electrostatics -- Fast Forth Power and Its Application in Inversion Computation for a Special Class of Trinomials -- Computational Study of Compressive Loading of Carbon Nanotubes -- plrint5d: A Five-Dimensional Automatic Cubature Routine Designed for a Multi-core Platform -- Development of Quadruple Precision Arithmetic Toolbox QuPAT on Scilab -- Agent Based Evacuation Model with Car-Following Parameters by Means of Cellular Automata -- A

Cellular Automata Based Approach for Prediction of Hot Mudflow Disaster Area -- Stochastic Optimization Approaches to Image Reconstruction in Electrical Impedance Tomography -- Estimating Soil Parameters Using the Kernel Function -- A Genetic Algorithm for Efficient Delivery Vehicle Operation Planning Considering Traffic Conditions -- On the Possibilities of Multi-core Processor Use for Real-Time Forecast of Dangerous Convective Phenomena -- Transformation, Reduction and Extrapolation Techniques for Feynman Loop Integrals -- Workshop on PULSES V- Logical, Scientific and Computational Aspects of Pulse Phenomena in Transitions (PULSES 2010) -- Application of Wavelet-Basis for Solution of the Fredholm Type Integral Equations -- Fractal Patterns in Prime Numbers Distribution -- Efficient Energy Supply from Ground Coupled Heat Transfer Source -- A Study of Nonlinear Time-Varying Spectral Analysis Based on HHT, MODWPT and Multitaper Time-Frequency Reassignment -- Performance Analysis of Greenhouses with Integrated Photovoltaic Modules -- Modelling Cutaneous Senescence Process -- Self-similar Hierarchical Regular Lattices -- Workshop on Software Engineering Processes and Applications (SEPA 2010) -- Model Driven Software Development of Applications Based on Web Services -- An Aspect-Oriented Approach for Mobile Embedded Software Modeling -- Multi-variate Principal Component Analysis of Software Maintenance Effort Drivers -- Process Model Based Incremental Project Planning -- A Software Metric for Python Language -- Certifying Algorithms for the Path Cover and Related Problems on Interval Graphs -- Design and Overhead Estimation of Device Driver Process -- Improvement of Gaze Estimation Robustness Using Pupil Knowledge -- Workshop on WEB 2.0 and Social Networks (Web2.0 2010) -- Behaviour-Based Web Spambot Detection by Utilising Action Time and Action Frequency -- Towards the Definition of a Metamodel for the Conceptual Specification of Web Applications Based on Social Networks -- Semi-automatic Information Extraction from Discussion Boards with Applications for Anti-Spam Technology -- Factors Involved in Estimating Cost of Email Spam -- Spam 2.0: The Problem Ahead -- General Track on Information Systems and Technologies -- Tag Recommendation for Flickr Using Web Browsing Behavior -- USABAGILE\_Web: A Web Agile Usability Approach for Web Site Design -- Combining CSP and Constraint-Based Mining for Pattern Discovery -- Experience in Developing an Open Source Scalable Software Infrastructure in Japan -- A New Formal Test Method for Networked Software Integration Testing -- General Track on Computational Methods, Algorithms and Scientific Application -- Automatic History Matching in Petroleum Reservoirs Using the TSVD Method -- An Efficient Hardware Architecture from C Program with Memory Access to Hardware -- A New Approach: Component-Based Multi-physics Coupling through CCA-LISI -- Efficient Algorithms for the 2-Center Problems -- A Genetic Algorithm for Integration Planning of Assembly Operation and Machine Layout -- General Track on Advanced and Emerging Applications -- Diagnosis of Learning Styles Based on Active/Reflective Dimension of Felder and Silverman's Learning Style Model in a Learning Management System -- Exploring the State of the Art in Adaptive Distributed Learning Environments -- Analysis of an Implicitly Restarted Simpler GMRES Variant of Augmented GMRES -- On the Linearity of Cryptographic Sequence Generators.

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#### Sommario/riassunto

These multiple volumes (LNCS volumes 6016, 6017, 6018 and 6019) consist of the peer-reviewed papers from the 2010 International Conference on Computational Science and Its Applications (ICCSA2010) held in Fukuoka, Japan during March 23-26, 2010. ICCSA2010 was a successful event in the International Conferences on

Computational Science and Its Applications (ICCSA) conference - ries, previously held in Suwon, South Korea (2009), Perugia, Italy (2008), Kuala Lumpur, Malaysia (2007), Glasgow, UK (2006), Singapore (2005), Assisi, Italy (2004), Montreal, Canada (2003), and (as ICCS) Amsterdam, The Netherlands (2002) and San Francisco, USA (2001). Computational science is a main pillar of most of the present research, - dustrial and commercial activities and plays a unique role in exploiting ICT - novative technologies. The ICCSA conference series has been providing a venue to researchers and industry practitioners to discuss new ideas, to share complex problems and their solutions, and to shape new trends in computational science. ICCSA 2010 was celebrated at the host university, Kyushu Sangyo Univ- sity, Fukuoka, Japan, as part of the university's 50th anniversary. We would like to thank Kyushu Sangyo University for hosting ICCSA this year, and for - cluding this international event in their celebrations. Also for the ?rst time this year, ICCSA organized poster sessions that present on-going projects on various aspects of computational sciences.

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