

DANIEL CIOI

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EDUCATION

PhD degree in Computer Science, Politehnica University of Timisoara, Timisoara, Romania, March 2008

PhD student (Virtual Reality for Computer Aided Design), Politehnica University of Timisoara, Mechanical Engineering, Mechatronics Department, Timisoara, November 2003 - March 2008

Dipl. Eng. Politehnica University of Timisoara, Mechanical Engineering, Mechatronics Department, Industrial Robots, Timisoara, 2003

EMPLOYMENT

Post-doctoral Associate, Rutgers University, CAIP, Piscataway, NJ, USA, May 2008 - August 2010

Research/Teaching Assistant, Politehnica University of Timisoara, Mechanical Engineering, Mechatronics Department, Timisoara, November 2003 - March 2008

FIELDS OF INTEREST

CAD, Virtual Reality (VRML, X3D, Visual Python, Java3D); Custom hardware and software development in medical rehabilitation

System and Network Administration - Unix (FreeBSD, OpenBSD, HP-UX, Solaris), Linux (Redhat, Suse, Gentoo, Knoppix)

RESEARCH ACTIVITIES

Grant 694 CEEEX, Collaborative Virtual Reality Environment for the Pre-Surgery Planning in Orthopaedics (ConMec), period: 2006/2008 - member

Grant 1612 CEEEX nr.88, The development and implementation of some investigation and rehabilitation systems for the spinal column deformations to school age population and professional categories with sedentary activities (INBIRE), period: 2006/2008 - member

Grant 2799 CEEEX, Optimisation of the energetic potential of waste for clean energy generation in Romanian industrial facilities (OVAPED), period: 2006/2008 - member

Grant 4293 CEEEX, Advanced pneumatic systems for precise action in robotics and other industrial applications based on new types of proportional servo-systems in mechatronics conception (SPASERVODIST), period: 2006/2008 - member

Grant 112 CEEEX II 03, Simulation, Control and Testing Platform with applications in mechatronics (ConMec), period: 2006/2008 - member

Grant CNCSIS 83, Virtual Reality for Computer Aided Design, period: 2006/2007 - director

Grant CNCSIS 343, Intelligent CAD for devices personalization of skeleton deficiency adjustment, period: 2006/2007 - member

Grant 320 CEEEX, Magnetic and optical tunable nanomaterials with controlled porosity obtained by sol-gel method and sono-synthesis, potentially applicable in environmental protection, biology and medicine, period: 2005/2007 - member

Grant 21 CEEEX I 03, Researches regarding the possibilities of using robotic system with the purpose of increasing the technico-economical competitiveness of the romanian industry, period: 2005/2007 - member

The 6th FP of the European Commission - Skill-based Inspection and Assembly for Reconfigurable Automation Systems, (SIARAS) STREP NMP2-CT-2005-017146, period: 2005/2008 - member

Grant CNCISIS 8/162, Develop a Mechatronic laboratory, open and remote, period: 2004/2005 - member

SCHOLARSHIPS

Scholarship CEEPUS (RO-124-04/05), Viena University of Tehnology, Institute for Handling Device and Robotics, 01.03.2005 - 30.04.2005, Austria

Scholarship CEEPUS (RO-0124-03/04), Slovak University of Tehnology, 05.04.2004 - 30.04.2004, Bratislava, Slovakia

PROFESSIONAL AFFILIATIONS

Member of the IEEE

Robotic Society of Romania

Toasmasters International

PUBLICATIONS

Cioi, D., G. Burdea, M. Holenski, The Rutgers Arm II Rehabilitation System - Case Series, Proceedings of Virtual Rehabilitation 2009 International Conf, pp. 221, Haifa, Israel, July 2009.

Vatau Steliana, Cioi Daniel, "Graphical User Interface for Quadruped's Leg Robot", ISI Proceedings of The 19th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions", 22-25th October, 2008.

Vatau Steliana, Cioi Daniel, "JROBO: Simulation and control with Java for Quatruped Robot", ISI Proceedings of The 19th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions", 22-25th October, 2008.

Burdea G., D. Fensterheim, D. Cioi and A. Arezki, "The Rutgers Arm II Rehabilitation System", Proceedings of Virtual Rehabilitation 2008, pp. 76, Vancouver Canada, August 25-27, 2008 (poster session).

Daniel Cioi, "A Java3d Application for Visualization and Deformation of Cad Models in Virtual Reality", ISI Proceedings of The 18th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics of Engineers" (Croatia, Zadar, 24-27th October 2007): pp 153-154.

Steliana Vatau, Daniel Cioi, Radulescu Corneliu, "Mechanical design of a hip joint for an anthropomorphic leg", ISI Proceedings of The 18th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics of Engineers" (Croatia, Zadar, 24-27th October 2007): pp 801-802.

Daniel Cioi, "Interchanging Three-Dimensional Models Between CAD and VR System", Proceedings of PRASIC'06, Simpozionul national cu participare internationala Proiectarea Asistata de Calculator, Vol. III - Design de Prods (Brasov November 09-10, 2006): pp 61-64.

Daniel Cioi, "Collision Detection in Virtual Reality", Proceedings of ROBOTICA 2006, The 3rd International Conference on Robotics (Iasi September 07-09, 2006): pp 151-154.

Daniel Cioi, "Haptic Devices for Computer Aided Design", Proceedings of COMEFIM'8, The 8th International Conference on Mechatronics and Precision Engineering (Cluj-Napoca June 8-10, 2006): pp 883-888.

Daniel Cioi, "Comparison of 3D Stereoscopic Visualization Devices", Proceedings of COMEFIM'8, The 8th International Conference on Mechatronics and Precision Engineering (Cluj-Napoca June 8-10, 2006): pp 669-674.

Daniel Cioi, "Robot Simulation using Java 3D", Proceedings of OPTIROB 2006, 1st International Scientific Meeting "Optimization of the Robots and Manipulators" (Predeal May 26-28, 2006): pp 57-59.

Daniel Cioi, Steliana Vatau, Inocentiu Maniu, "Virtual Reality Laboratory for Robot Systems", Proceedings of SACI 2006, 3rd Romanian-Hungarian Joint Symposium on Applied Computational Intelligence (Timisoara May 26-26, 2006): pp 634-641.

Daniel Cioi, "Virtual Reality for Computer-Aided Design", The International Journal Robotica & Management, Vol.10, No.2 (December 2005): pp 46-48.

Daniel Cioi, "Virtual Reality Modelling for Educational Robot Systems", Proceedings of RAAD'05, 14th International Workshop on Robotics in Alpe-Adria-Danube Region (Bucharest May 26-28, 2005): pp 225-228.