

## ◇ Data personale

### SIRB VALI

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## ◇ Activitate profesionala

- **Doctorat**
  - **Institutie:** Universitatea din Petrosani
  - **Domeniul:** Ingineria sistemelor
  - **Conducator stiintific:** Prof. univ. dr. ing.mat. EMIL POP
  - **Titlu:** "Contributii privind modelarea, simularea si prototiparea sistemelor de tip CIM"
- **Societati stiintifice sau profesionale:**
  - Membru Societatea Romana de Automatica si Informatica Tehnica
  - Membru Asociatia Absolventilor Universitatii din Petrosani
- **Cursuri/Laboratoare:**
  - Sisteme intrare/iesire
  - Comert electronic
  - Teoria sistemelor si automatizari
- **Manuale publicate:**
  - Coroescu, T., Sirb, V., **Sisteme automate speciale**, Litografia UP, 2001
  - Coroescu, T., Sirb, V., **Introducere în știința sistemelor și a calculatoarelor**, Ed.Didactică și Pedagogică, Bucuresti, 2003

## ◇ Cercetare

- **Granturi, contracte de cercetare**
  - **Studiul posibilitatilor de utilizare a microcontrolerelor si automatelor programabile in comanda instalatiilor electromecanice.** Contract ANSTI 1999 - 2002
- **Articole publicate (reprezentative)**
  - SIRB V. C., POP E., LEBA M. **Contributions to the Expert System in to the Structure of CIMs.** Simpozion International Multidisciplinar "UNIVERSITARIA ROPET 2004", 15-16 ,octombrie, INGINERIE ELECTRICA SI INGINERIA SISTEMELOR SI CALCULATOARELOR, Editura UNIVERSITAS.
  - SIRB V. C., POP E., POP M. **The analysis and synthesis of driving C.I.M. Systems using Expert Systems.** Simpozion International Multidisciplinar "UNIVERSITARIA ROPET 2004", 15-16 , octombrie, INGINERIE ELECTRICA

SI INGINERIA SISTEMELOR SI CALCULATOARELOR,  
Editura UNIVERSITAS

- SIRB V. C., TOMUS A.M. **Flexible System modeling using Petri Nets. Anals Of The University Of Petrosani**, ELECTRICAL ENGINEERING, vol. 6, Editura UNIVERSITAS/2004
- SIRB V. C., POP E. **Studiul posibilitatilor de modelare si simulare a C.I.M.-urilor**. Simpozion Multidisciplinar International "UNIVERSITARIA SIMPRO 2005", 14-15 octombrie, Editura UNIVERSITAS, AUTOMATICA, INFORMATICA APLICATA SI CALCULATOARE
- SIRB V. C., POP E. **Contributii privind modelarea si simularea liniilor flexibile de fabricatie**. Simpozion Multidisciplinar International "UNIVERSITARIA SIMPRO 2005", 14-15 octombrie, Editura UNIVERSITAS, AUTOMATICA, INFORMATICA APLICATA SI CALCULATOARE.
- EGRI A., SIRB V., STOICUJA O., **The Kinematic model and the simulation of an omnidirectional mobile robot**. CSCS-15, 15th INTERNATIONAL CONFERENCE ON CONTROL SYSTEMS AND COMPUTER SCIENCE, 25- 27 mai 2005, Bucuresti.
- EGRI A., SIRB V., SOCHIRCA B., **Contribution concerning CIM modeling and simulation**. 2006 IEEE-TTTC-INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING , ROBOTICS, 25-26 mai 2006, CLUJ-NAPOCA. Publicat în volumul Automation , Quality and Testing, Robotic
- SIRB V. C., POP E. **C.I.M. Direction System Contributions using the Expert Systems**. Simpozion International Multidisciplinar "UNIVERSITARIA SIMPRO 2006", 13-14 octombrie, Editura UNIVERSITAS, AUTOMATICA, INFORMATICA APLICATA SI CALCULATOARE
- SIRB V. C., EGRI A., SOCHIRCA B. **Contribution Concerning C.I.M. modeling and simulation**. Simpozion International Multidisciplinar "UNIVERSITARIA SIMPRO 2006", 13-14 octombrie, Editura UNIVERSITAS, AUTOMATICA, INFORMATICA APLICATA SI CALCULATOARE.
- SIRB V. C., POP E., SOCHIRCA B. **The modeling and simulation of the Flexible Fabrication Line with Petri Nets**. Anals Of The University Of Petrosani, ELECTRICAL ENGINEERING, vol. 8 Editura UNIVERSITAS/2006.
- SIRB V. C., POP E. **CIM Direction System Contributions Using the Expert System**. The VIIIth International Symposium "YOUNG PEOPLE AND MULTIDISCIPLINARY RESEARCH", Timisoara, 2006.

- EGRI A., TULBURE A., SIRB V., **Control and simulation for robotic arms** MicroCAD 2007, International Scientific Conference, 22-23 martie 2007.
- TULBURE A., EGRI A., JOLDES R., SIRB V., **CAGES SWITCHING AT AN INDUCTION MACHINE USING THE 16-BIT MICROCONTROLLER.** MicroCAD 2007, International Scientific Conference, 22-23 martie 2007.
- EGRI A., SIRB V.C. **Modeling for Industrial and Manufacturing Systems.** Anals Of The University Of Petrosani, ELECTRICAL ENGINEERING, vol. 9, Editura UNIVERSITAS/2007.
- SIRB V., EGRI A. **Grafic simulation of C.I.M.'s using Visual Object Net Environment.** Simpozion International Multidisciplinar "UNIVERSITARIA SIMPRO 2008", 16-17 octombrie, Editura UNIVERSITAS, SYSTEM CONTROL, APPLIED INFORMATICS AND COMPUTER ENGINEERING.
- SIRB V., EGRI A. **Kanban control System.** Simpozion International Multidisciplinar "UNIVERSITARIA SIMPRO 2008", 16-17 octombrie, Editura UNIVERSITAS, SYSTEM CONTROL, APPLIED INFORMATICS AND COMPUTER ENGINEERING.
- EGRI A., TULBURE A., SIRB V., JOLDES R., **PULSE WIDTH MODULATION SIGNALS TO CONTROL THE CIM-SYSTEM.** MicroCAD 2008, International Scientific Conference, 20-21 martie 2008.

◆ **Alte activitati:**

- Membru in Consiliul Facultatii de Inginerie Mecanica si Electrica