Curriculum Vitae

Name: Dr Samad Dadvandipour

Position: Associate Professor

Work place: Institute of Information Science, Faculty of Mechanical Engineering/University of Miskolc-Hungary.

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Education:

PhD: Hatvany József Information Science Doctoral School, University of Miskolc-Hungary, Dissertation Title: "*Solving Some Optimization Problems in CIM Environment"*, 1998. (www.doktori.hu).

MSc: Department of Mechanical Science and Technology, Faculty of Mechanical Engineering, University of Miskolc-Hungary, Dissertation Title: "*Elaboration of an Expert System for Process Planning of Upsetting"*, 1994. (http://www.uni-miskolc.hu).

Scientific Memberships:

1.**MTA–**Hungarian Academy of Science, III. Mathematic Department, Computer Science and Information Technology Commission, Information Science {Focused on Computer Integated Manufacturing System (CIM)}.

- Research areas: Production Information and Optimisation, Computer Aided Process Planning (CAPP), Neural Networks, Image Processing System (IPS) (www.mtakpa.hu/kta/kereso/list.php).

2.**ASM International**–American Society of Material Science (1989–2002) (www.asminternational.org).

3.**ITCA**–Information Technology Center of Azerbaijan, (ITC), (2002–2011) (www.iranu.com).

4.**AAAS**–American Association for the Advancement of Science (2006–) (http://www.aaas.org/).

Teaching Subjects:

University of Miskolc, Hungary:

From 2011 till now:

- Production Systems and Processing in theory and practice (daily and corresponding students);
- Modeling of Production Processes in theory and practice (daily and corresponding students);
- Introduction to Technical English for Foreign and Erasmus-students;

- Artificial Intelligence in practice;
- Production Control and Scheduling in theory and practice (logistic managements and mechatronic students) ;
- Digital Manufacturing for Foreign and Erasmus-students
- Computer Studies for Foreign and Erasmus-students;
- Computer Aided Production Control in theory (informatic students).

2004–2011 in Iran: University of Tabriz and University of Azad

- Mechatronics-I in theory and practice;
- Mechatronics-II in theory and practice;
- Foundamentals of Manufacturing Systems in theory and practice;
- Mechanical Engineerig and Manufacturing Technology in theory and practice;
- Computer Integrated Manufacturing Systems (CIM) in theory and practice;
- Computer Aided Design (CAD) in theory and practice;
- Computer Aided Process Planning (CAPP) in theory and practice;
- Information Technology (IT) in theory and practice;
- Artificial Intelligencia in theory and practice;
- Fuzzy Logics in theory and practice;
- CAD/CAM in theory and practice;
- Basics of Computer Engineering in theory and practice;
- Plasticity and Metal Forming in theory and practice;
- Technical English (Production Desing and Manufacturing, Solid Mechanics, Fluid Mechanics);
- Manufacturing Control in theory and practice;
- Manufacturing Desing and related subjects in theory and practice.

2000-2004 University of Miskolc, Hungary:

- Artificial Intelligence in theory;
- Neural Networks and Neural-Fuzzy in theory;
- Material Science in theory and practice.

1994-2000 Institute of Bay Zoltan in Miskolc-Tapolca and University of Miskolc:

- Metallogy;
- Material Science;
- Material Testing;
- Computer Studies.

Languages:

- Persian and Azerbaijanian (mother tongue);
- English: Proficiency;
- Hungarian: Profeciency;
- Turkish: Intermediate.

Research Activities:

- Image Processing System (IPS);
- Image Processing System and Neural Networks;
- Electro-Discharge Machining Processing (EDM);
- Integration of CAPP and CAPC in Discrete Manufacturing Systems;
- Optimization of Total Cost of Turning Processes using Design and Mathematical Analysis;
- Desing and Manufacturing of TI-135 Type Truck Exhaust and Intake Pipes Using CAD/CAM Systems;
- Simulation and Optimization of Non-Linear Motion of Four-Axis Scara Robot;
- Experimental Process of EDM (Electro-Discharge Machining) with different kinds of electrodes.

Projects Activities:

- Solving Some Optimization Problems of CAPP in CIM Environment (a Part of PhD-thesis);
- Notch Effect on The Reliability of Quasi-Static Loaded Structures (a Part of PhD-thesis);
- Analysing and Documenting of Simple and Complex Industrial Components Using Finate Element Method (Bay Zoltan Interior Project);
- Hungary-Turkey R&D Inter-governmental Project: Developing of CAQC Softwer for Elimination Turning Process Error;
- Hungary-Greece R&D Inter-governmental Project: Notch Effect in Engineering Structure;
- EU Inco-Copernicus Project: Hungary, Germany, Slovenia and Belgium: Rapid Sheet Metal Product Development Chain by Laser Sintered Prototype Tool;
- Hungary-Germany R&D Inter-governmental Project: Abrasive Water Jet Cutting Systems in CAD/CAM Environment;
- TAMOP–4.2.1.B-10/2/KONV-2010-0001.