

CURICULLUM VITAE

Personal details:

- ❖ Name: **RĂZVAN TUDOR V. TĂNASIE**
- ❖ Birth: December 3rd, 1980 - Craiova, Romania
- ❖ Social status: married
- ❖ Sex: male
- ❖ Address: Str. Imparatul Traian nr. 44 (66)
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Current status:

- ❖ Assistant professor - Software Engineering department, Faculty of Automation, Computers and Electronics, University of Craiova, Romania,
- ❖ Ph.D. student - “Automated Systems” field.

Education:

- ❖ 2006: Master in Software Engineering, Faculty of Automation, Computers and Electronics, University of Craiova, Romania, Master Diploma Project – 10, years of study average – 10,
- ❖ 2004: BSc in Computer science, Faculty of Automation, Computers and Electronics, University of Craiova, Romania, Software Engineering, English teaching class, Diploma average – 10, years of study average – 9.79, first in the year,
- ❖ 2003: 3 months D.A.A.D. – I.A.E.S.T.E. program - scholarship in Germany at “Universitat der Bundeswehr Munchen”,
- ❖ 2002: 3 months Socrates scholarship in Germany at “Universitat der Bundeswehr Munchen”,
- ❖ 1999: high – school graduation, GPA 9.62 on the scale of 1 to 10,
- ❖ 1995 – 1999: high – school - college “Carol I”, intensive mathematics and English schedule.

Prizes and awards:

- ❖ 2008 I organize and coordinate ACE-UBISOFT Craiova Gaming Center – a gaming training center (programming, graphics, design) that more than 400 people attend,
- ❖ 2008 I organized and coordinated the graphical interest group, whose members participated at national and international contests (ITFEST, 4Tuning Days, ZTS) where they obtained more than 20 awards,

Nr.	Concurs	Premiul
1.	4Tuning Days	I st Prize - 4Tuning Days Best 3D - Marius Vintila
2.	IT Fest Timisoara	I st Prize - Hardware - Daniel Ianosi I st Prize - Soft Utilitar - Mihai Gosa, Marius Vintila, Ovidiu Blejdea, Mihai Popescu, Sorin Ilie II nd Prize - Soft Educational - George Stan II nd Prize - Fotografie - Mihai Sandu II nd Prize - Video - Gabriel Popescu

3.	IT Fest Bucuresti	I st Prize - Multimedia - Marius Vintila, Roxana Cojocaru III rd Prize - Multimedia - Gabriel Popescu II nd Prize - Soft Educational - George Stan II nd Prize - Soft Utilitar - Mihai Gosa, Marius Vintila, Ovidiu Blejdea, Mihai Popescu, Sorin Ilie
4.	ZTS Craiova	I st Prize - Multimedia - Marius Vintila, Roxana Cojocaru II nd Prize - Multimedia - Gabriel Popescu III rd Prize - Multimedia - Daniel Ianosi I st Prize - IT - Mihai Popescu III rd Prize - IT - Mihai Gosa, Marius Vintila, Ovidiu Blejdea, Mihai Popescu, Sorin Ilie

- ❖ 2007: I organized and coordinated the graphical interest group, whose members participated at national and international contests (ITFEST, STUDIT, ZTS) where they obtained more than 20 awards,

No	Contest	Prize
1.	ITFest 2007 Timisoara	First Prize Games; First Prize Interactive Contest; IV Prize Interactive Contest; The Special Prize for The Best Team in Contest.
2.	ZTS Craiova	First Prize – Multimedia Section; II Prize – Multimedia Section; III rd Prize – Multimedia Section; Special Prize – Multimedia Section; first Prize – IT Section; II Prize – IT Section.
3.	IT Fest Bucharest	First Prize – 3D Graphics Section; II Prize – 3D Graphics Section; III rd Prize – 3D Graphics Section; First Prize – Games Section; First Prize – Spot Design; III rd Prize – Special Soft Section; III rd Prize Web Design Section.
4.	Stud IT Timisoara	First Prize; Second Prize; Mention.

- ❖ 2005: I coordinated the “digitalReality” team, the only Romanian team that qualified in the Rendering section of the semifinals of the “Microsoft Imagine Cup 2005” contest – first 24 teams in the world,
- ❖ 1999: 3rd prize at the “National Mathematics Contest”,
- ❖ 1998: participation at the “National Mathematics Contest”,
- ❖ 1997: 3rd prize at the “National Mathematics Contest”,
- ❖ 1996: 2nd prize at the “National Mathematics Contest”,
- ❖ 1995: participation at the “National Mathematics Contest”,
- ❖ 1994: 1st prize at the “National Mathematics Contest”.

Main studied disciplines:

- ❖ Pascal, C/C++ Programming Languages,
- ❖ Programming Techniques,
- ❖ Data Structures and Algorithms,
- ❖ Object Oriented Programming – Microsoft Visual C++,
- ❖ Computer Graphics,
- ❖ Graphics Processing Systems – DirectX, OpenGL,

- ❖ Document Processing – HTML, Microsoft Office,
- ❖ Logical Design of Digital Computer,
- ❖ Computer Architecture and Computer Organization,
- ❖ Assembly Language Programming,
- ❖ Database Designing and Programming,
- ❖ Computer Networks,
- ❖ Modeling and Simulation for Computer Systems and Networks,
- ❖ Formal Languages,
- ❖ Expert Systems,
- ❖ Real Time Computer Systems,
- ❖ Web Application Development – JAVA, PHP, ASP,
- ❖ Operating Systems,
- ❖ Multimedia,
- ❖ Parallel Computer Programming,
- ❖ Compiler Design,
- ❖ E-Commerce.

Approached projects:

- ❖ Simulation and visual-servoing control graphic environment for hyper-redundant robots – kinematics and dynamics applications ((implemented in Microsoft Visual C++ and using Microsoft DirectX 9 libraries),
- ❖ GeDeE - Generator, derivator and evaluator for expressions (implemented in Microsoft Visual C++),
- ❖ Graphics and Physics Engines for Force Simulation in a Virtual Environment (implemented in Microsoft Visual C++ and using Microsoft DirectX 9 libraries),
- ❖ Human Movement Simulator (implemented in Microsoft Visual C++ and using Microsoft DirectX 9 libraries),
- ❖ Kinematics Robot Control Using Visual Servoing (implemented in Microsoft Visual C++),
- ❖ Path Finding System Using Artificial Potential Fields (implemented in Microsoft Visual C++ and using Microsoft DirectX 9 libraries),
- ❖ Fuzzy System for Image Processing - FUZIP (implemented in Microsoft Visual C++),
- ❖ Server Side Solutions for Applications on the Web with Database Support – a site for the students of all universities implemented in PHP and MySQL,
- ❖ Client Side Solutions for Applications on the Web with Database Support – operations on a CD collection implemented in JAVA with MySQL,
- ❖ Mathematical methods based on differential equations for solving heat transfer problems. Application for Round and Flat Cables. Implemented in Visual C++ - at UniBw Munchen under the co-ordination of Prof. Dr. Ing. H. D. Liess,
- ❖ Mathematical methods based on differential equations for solving heat transfer problems. Application for Fuses. Implemented in Visual C++ - at UniBw Munchen under the co-ordination of Prof. Dr. Ing. H. D. Liess,
- ❖ E-learning application (eg. Carnot Cycle). Implemented in Visual J++ - at UniBw Munchen under the co-ordination of Prof. Dr. Ing. M. Pfitzner,
- ❖ Object Oriented Programming Project Implemented in Visual C++,
- ❖ Data structures and algorithms project implemented in C++,
- ❖ Artificial Intelligence Project Implemented in Visual C++,
- ❖ Web sites development with and without JAVA applets,
- ❖ Virtual shop implemented in JSP and MySQL,
- ❖ A C-- compiler.

Books:

- ❖ Răzvan Tudor Tănăsie, Dorian Cojocaru, “*Fuzzy Techniques in Computer Vision*”, ISBN 973-742-428-X, Editura Universitaria, Craiova, 2006.

Publications:

- ❖ Cojocaru, D., Tanasie, T.R., Ivanescu, M., 2008, “*Graphic Simulation for Camera Calibration in Visual-Servoing Application*”, 8th WSEAS International Conference on Signal Processing, Computational Geometry and Artificial Vision (ISCGAV'08), August 20-22, Rhodes (Rodos) Island, Greece.
- ❖ Cojocaru, D., Tanasie, T.R., 2008, “*Calibration Application for Real-Time Hyperredundant Robot's Vision Control*”, Proceedings of the RAAD 2008 17th International Workshop on Robotics in Alpe-Adria-Danube Region, ISBN 978-88-9037-0-8, paper no. 39, September 15-17, 2008, Ancona, Italy.
- ❖ Cojocaru, D., Manta, F., Tanasie, T.R., Pana, C., 2008, “*3D Vision for Continuum Robot Control*”, A 4-a Conferinta Internationala de Robotica – ROBOTICA'08, sub egida Universitatii Transilvania din Brasov si Societatea de Robotica din Romania, November 13-14, 2008, Brasov, Romanian (acceptată pentru publicare).
- ❖ Cojocaru, D., Tanasie, T.R., Ivanescu, M., 2008, “*Graphic Simulator for the Visual Control of Hyperredundant Robots*”, WSEAS Transactions on Information Science and Applications, Issue , Volume , p-, ISSN 1790-0832 (acceptată pentru publicare).
- ❖ Tănăsie, R.T., Pancu M., Grigoroiu V., “*Romanian Phone Recognition System*”, Applied Computing Conference (Acc '08), Istanbul, Turkey.
- ❖ Cojocaru, D., Tanasie, T.R., Ivanescu, M., 2008, “*Expressions' Generator, Evaluator and Derivator for Hyperredundant Robot's Control*”, 4th WSEAS/IASME International Conference on Dynamical Systems and Control (CONTROL'08).
- ❖ Tanasie, T.R., Cojocaru, D., “*Graphic Simulation for Inverse Kinematics Algorithms in Visual Servoing Applications*”, 4th WSEAS/IASME International Conference on Dynamical Systems and Control (CONTROL'08), Corfu, Greece, ISSN 1790-2769, p181-186, 2008.
- ❖ Burdescu, D., Stănescu, L., Tănăsie, R.T., Ion, A., “*3D-Image Retrieval Novel Algorithm*”, Proceedings of MCCSIS, Lisbon, Portugal 2007, ISBN 978-972-8924-39-3, 2007.
- ❖ Tănăsie, R.T., Popescu, M., Bogheanu, D., Ciocoiu, G., Cojocaru, D., “*Fractal Art: Fractal Image and Music Generator*”, 7th WSEAS International Conference on Signal Processing, Computational Geometry and Artificial Vision 2007, Vouliagmeni, Grecia, ISSN 1790-5117, 2007.
- ❖ Tănăsie, R.T., Cojocaru, D., “*A Fuzzy Path Finding Algorithm Based on Artificial Potential Fields*”, International Computer Graphics Theory and Applications GRAPP 2007, ISBN 978-972-8865-72-6, 2007.
- ❖ Ivănescu, M., Cojocaru, D., Popescu, N., Popescu, D., Tănăsie, R.T., “*3D Visual Servoing for a Tentacle Manipulator*”, 6th ASSC Asian Control, Bali, Indonesia, ISBN 979-15017-0, 2006.
- ❖ Tănăsie, R.T., Cojocaru, D., “*A Visual Servoing Robot Control Architecture*”, WSEAS Transactions on Computers, Issue 11, Volume 5, p2682-2689, ISSN 1109-2750, 2006.
- ❖ Tănăsie, R.T., Cojocaru, D., “*Software Techniques for a Visual Servoing Architecture*”, 10th WSEAS International Conference on Computers, Vouliagmeni, Greece, ISSN 1790-5117, 2006.
- ❖ Cojocaru, D., Tănăsie, R.T., “*Fuzzy Based Image Processing for Robotic Vision*”, accepted paper at 13th International Congress on Sound and Vibration (ICSV 13), Vienna, Austria, 2006.
- ❖ Cojocaru, D., Tănăsie, R.T., “*Computer Graphics and Image Processing Tools for Visual Servoing*”, 6th WSEAS International Conference on Signal Processing, Computational Geometry and Artificial Vision (ISCGAV'06), Crete, Greece, 2006.

- ❖ Cojocaru, D., Tănasie, R.T., “A Software System for Visual Servoing”, WSEAS Transactions on Information Science and Applications, p2086-2093, ISSN 1790-0832 2006.
- ❖ Ivănescu, M., Cojocaru, D., Popescu, N., Popescu, D., Tănasie, R. T., “A 3D Visual Servoing System”, Annals of the University of Craiova, p36-41, Vol. 3(30), No. 1, ISSN 1841-0626, 2006.
- ❖ Ivănescu, M., Cojocaru, D., Popescu, N., Popescu, D., Tănasie, R.T., “Visual Based Control System for a Tentacle Manipulator”, WSEAS Transactions on Information Science and Applications, Issue 3, Volume 3, p610-617, ISSN 1790-0832, 2006.
- ❖ Ivănescu, M., Cojocaru, D., Popescu, N., Popescu, D., Tănasie, R.T., “Hyperredundant Robot Control by Visual Servoing”, Studies in Informatics and Control Journal, Volume 15, Number 1, p93-102, ISSN 1220-1766, 2006.
- ❖ Tănasie, R., Cojocaru, D., “Robot Cinematics Simulation for Educational Applications”, EAEEIE, 17th EAEEIE Annual Conference on Innovation in Education for Electrical and Information Engineering (EIE), Craiova, Romania, ISBN 973-742-350-X, 2006.
- ❖ Ivănescu, M., Cojocaru, D., Popescu, N., Popescu, D., Tănasie, R.T., “Visual Servoing System for a Hyperredundant Robot”, The 5th WSEAS International Conference on Signal Processing, Robotics and Automation (ISPRA '06), ISBN 960-8457-41-6, p113-118, Madrid, Spain, 2006.
- ❖ Cojocaru, D., Tănasie, R. T., Bărbulescu, E., “Experiments in Fuzzy Image Segmentation”, XIIth International Symposium On System Theory SINTES 2005, Vol.3 Software Engineering, ISBN 973-742-148-5, p499-504, Craiova, Romania, 2005.
- ❖ Tănasie, R. T., Tunaru, C., “Using Dynamic Techniques in Computer Graphics Applications”, XIIth International Symposium On System Theory SINTES 2005, Vol.3 Software Engineering, ISBN 973-742-148-5, p652-657, Craiova, Romania, 2005.
- ❖ Ivănescu, M., Cojocaru, D., Popescu, N., Popescu, D., Tănasie, R. T., “A 3D Visual Servoing System”, XIIth International Symposium On System Theory SINTES 2005, Vol.2 Mechatronics & Electronics, ISBN 973-742-148-5, p273-278, Craiova, Romania, 2005.
- ❖ Dorian Cojocaru, Răzvan Tudor Tănasie, “Visual Servoing for Mobile Robots”, 15th International Conference on Control Systems and Computer Science CSCS15, ISBN 973-8449-89-8, p488-493, București, 25-27.05.2005.
- ❖ Dorian Cojocaru, Răzvan Tudor Tănasie, “Fuzzy Techniques for Vision-Based Feedback in Food Quality Control”, 14th International Workshop on Robotics in Alpe-Adria-Danube Region, RAAD 2005, Proceedings of RAAD'05, ISBN 973-718-241-3, p537-542, București, 26-28.05.2005.
- ❖ Răzvan Tudor Tănasie, “Image Processing Using Fuzzy Methods”, Annals of the University of Craiova – Series: Automation, Computers, Electronics and Mechatronics, Vol. 1, ISSN 1841-0626, p123-130, 2004.
- ❖ Răzvan Tudor Tănasie, “Applied Mathematics for Heat Transfer”, XIth International Symposium On System Theory SINTES 2003, Vol.1 Automation and Mechatronic Systems, ISBN 973-8043-415-5, p271-276, Craiova, 23-24.10.2004.
- ❖ Răzvan Tudor Tănasie, Doroian Cojocaru, “Fuzzy Techniques in Computer Vision”, 2nd International Conference in Robotics Robotica 2004, Proceedings of the 2nd International Conference on Robotics, ISBN 973-97258-3-X, p177-178, Timișoara & Reșița, 14-16.10.2004.
- ❖ Răzvan Tudor Tănasie, “Fuzzy Techniques in Computer Vision”- lucrare de diplomă Facultatea de Automatică, Calculatoare și Electronică Craiova, Secția Calculatoare (Engleză), Specializarea Software, coordonator Prof. Univ. Dr. Ing. Mircea Ivănescu, 2004.

Participation in Scientific Research Projects:

- ❖ *"Autonomous Robot-Computer Vision Platforms, Intelligent, for Qualification, Sorting, Quality Inspection for Holonic Controlled Products, Services Oriented – SOFHICOR", contract PARTENERIAT Nr. 11-042/18.09.2007, collaboration subcontract 661/14.09.2007, 2007-2010.*

- ❖ *"Tentacular Robot Control Based on Computer Vision"*, grant CNCSIS PN II IDEI 102/01.10.2007, registered at University of Craiova with nr. 45C/27.09.2007, 2007-2010.
- ❖ *"Models and Methods for Visual Control of Hyper-redundant Robots "*, Romanian Academy grant, GAR 100/09.08.2007, registered at the University of Craiova nr. 4174/03.08.2007, 2007-2009.
- ❖ *"Online Informatics System for Content Based Querying for Multimedia Databases Obtained by Extracting Information from DICOM Files"*, beneficiary: CNCSIS, code 629, theme 18, grant type A, 29C/08.05.2007, 2007-2008.
- ❖ *"Holon Control Fabrication Platform with Multiple Robots and Integrated Computer Vision for Material Conditioning - RVHOLON"*, contract CEEX AMCSIT Nr. 146/20.07.2006, 2006-2008.
- ❖ *"Research Regarding Mobile Mini-robots Having Pendular Motion – ROBOPEND"*, contract CEEX AMCSIT Nr. 90 / 31.07.2006, 2006-2008.
- ❖ *"Graphical System for Virtual Visual Servoing Applications"*, beneficiary: CNCSIS, Td grant, code 76, theme 2, GR 16/ 09.05.07, 2006-2008, project coordinator: **Răzvan Tudor Tănăsie**.
- ❖ *"Algorithms for Medical Images Multimedia Databases Processing and Querying"*, beneficiary: CNCSIS, A type grant, GR155/04.05.2006, code 100, theme 7, 2005-2008.
- ❖ *"Research and education resources apportion"*, CEEX module I, complex research-development project, CEEX 24, I03/10.10.2005; 2005-2008.
- ❖ *"Research Promotion in Automation and Robotics for European and International Research Network Integration "*, CEEX module III, Proiecte de promovare a participării la programele europene și internaționale de cercetare, CEEX 14/2006, competition 2; 2006-2007.
- ❖ *"Computer Vision Applications Promotion"*, beneficiary: CNCSIS, phase: Computer Vision Applications, CNCSIS code 718 Theme 3, Contract nr. 40202/4.11.2003; 2003-2004.
- ❖ *"Fuzzy Techniques for Systems and Processes with Applicability in the Informational Society"*, beneficiary: CNCSIS, grant type A, CNCSIS code 100 Theme 4, Contract nr. 27661/14.03.2005, 2005-2007.

Skills and interests:

- ❖ Computer science: object oriented programming, computer graphics, data structures and algorithms, database programming, web design, computer aided design, word processing,
- ❖ Programming languages: DirectX, Visual C++, JAVA, HTML, Pascal, C/C++, MySQL, MSSQL, PHP, JSP, CGI, Visual FoxPro, Visual Basic, ASP, JAVA Script, Clips, COOL, assembly language,
- ❖ Mathematics – superior level,
- ❖ Driver license, 9 years experience.

Other features:

- ❖ Team Working Capability,
- ❖ Adaptability,
- ❖ Leadership.

Foreign languages:

- ❖ English: fluent written and spoken,
- ❖ French: fluent written and spoken,
- ❖ Italian: basic written and spoken,
- ❖ German: basic written and spoken.

Hobbies:

- ❖ Video games
- ❖ Sports: football, basketball, handball, tennis
- ❖ Movies
- ❖ Listening to music

My PhD thesis is called “Advanced Software techniques for Robotic Computer Vision Control”. In order to finish my thesis I took three exams in the fields of robotics, shape recognition methods and fuzzy systems, as well as three papers in the fields of robot control, both conventionally and fuzzy, and through computer vision which I passed with the degree “Very Good”.

Date:

22.10.2008

Signature: